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Geopressured Geothermal Bibliography**Volume II (Geopressure Thesaurus)**

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This work was sponsored in part by the Department of Energy
 contracts DE-AS-05-76ET28466 and DE-AC08-79ET27018.

Date Published - August 1981

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TABLE OF CONTENTS

1.0	Introduction	1
2.0	Subject Scope	3
3.0	Compatibility	3
4.0	Display Format	4
5.0	Thesaurus Structure	4
5.1	Cross-Reference Structure	4
5.2	Term Form	5
5.3	Term Entry	6
6.0	Method of Preparation	7
7.0	Work Plan	8
8.0	References	10
9.0	Citations	11
10.0	INDEX	181

1.0 Introduction

This thesaurus of terminology associated with the geopressured geothermal energy field has been developed as a part of the Geopressured Geothermal Information System data base. A thesaurus is a compilation of terms displaying synonymous, hierarchical, and other relationships between terms. These terms, which are called descriptors, constitute the special language of the information retrieval system -- the system vocabulary.

The function of a thesaurus is to provide a standardized vocabulary for the information storage and retrieval system to facilitate both the indexing and subject-searching processes. In indexing, a thesaurus is used to translate the natural language of the document to be indexed into the standardized system vocabulary and to place the document at the appropriate level of generality or specificity in relation to the other documents in the data base. In subject retrieval, the thesaurus is used to match the natural language used in search requests with the system vocabulary and to find the most appropriate term to represent a concept. The role of the thesaurus in an information-retrieval system is illustrated in Figure 1.

The Geopressure Thesaurus is such an information retrieval thesaurus. Its role in the Geopressured Geothermal Information System is to provide a controlled vocabulary of sufficient specificity for subject indexing and retrieval of documents in the geopressured geothermal energy field.

Several other thesauri overlap in coverage with the Geopressure Thesaurus. The thesauri most closely related to the Geopressure Thesaurus in coverage are the DOE Energy Information Data Base Subject Thesaurus (8) and the Geothermal Thesaurus being developed at the Lawrence Berkeley Laboratory(LBL) (7). The Geopressure Thesaurus differs from these thesauri in two respects: 1) specificity of the vocabulary or subject scope and 2) display format.

Geopressed Geothermal Bibliography

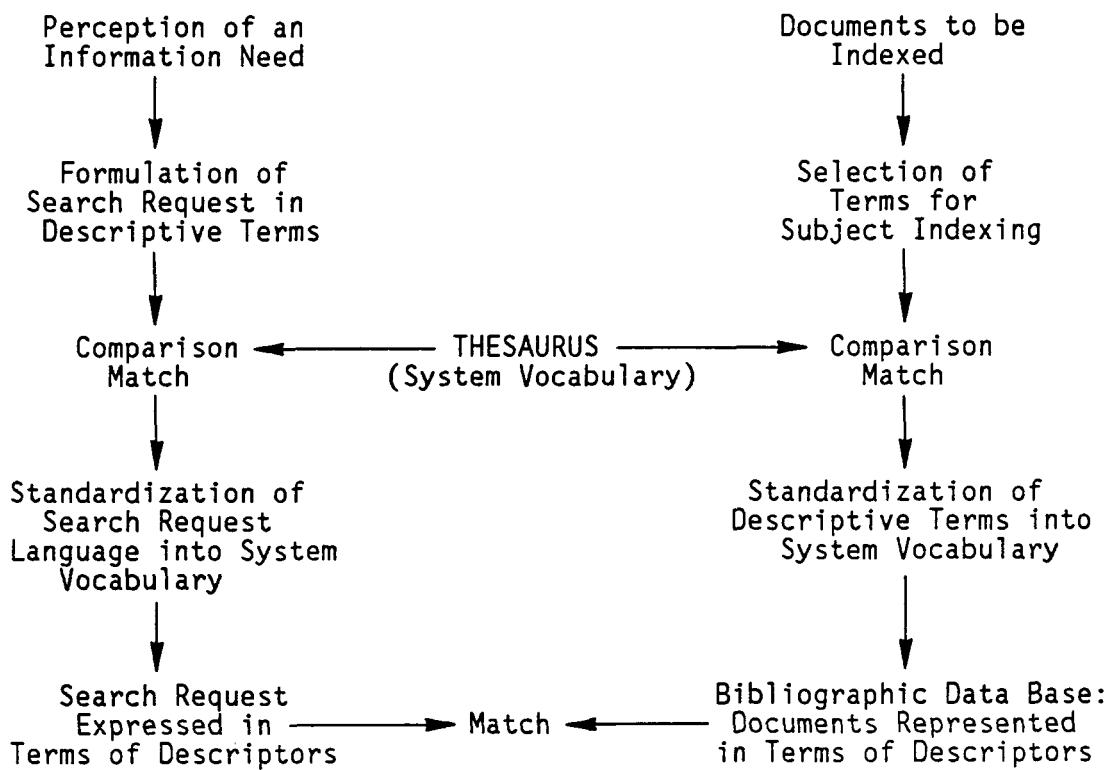


FIGURE 1 Role of a Thesaurus in an Information-Retrieval System

2.0 Subject Scope

The subject scope of the Geopressure Thesaurus includes such topics as:

1. Geopressure resource assessment: geographical distribution, estimated reserves.
2. Geology, hydrology, and geochemistry of geopressured systems.
3. Geopressure exploration and exploration technology: geophysical, geological, geochemical and hydrological methods of detecting and evaluating geopressured resources.
4. Geopressured reservoir engineering and drilling technology: drilling, development, and production of wells, corrosion, well tests, and measurements.
5. Economic aspects: financial incentives, cost estimates, taxation, and economic feasibility of developing geopressured resources for commercial and/or residential utilization.
6. Environmental aspects: effects of geopressure development on air, water, and land environments, subsidence, noise, land use, pollution.
7. Legal, institutional, and sociological aspects: effects of federal, state, and local laws and regulations in geopressure development, land use, societal considerations.
8. Electrical and nonelectrical utilization.
9. Other energy sources, especially methane and other fossil fuel reserves, associated with geopressured reservoirs.

DOE's Energy Information Data Base contains information on all aspects of energy sources, while the LBL Geothermal Thesaurus is limited to the geothermal energy field (6). The Geopressure Thesaurus is being developed to provide a highly specialized indexing vocabulary for geopressure information. Some topics included in the subject scope, such as economic and environmental aspects, are common to all fields, so that the vocabulary structure for environmental and economic terms is nearly identical in all three thesauri. Other topics, such as geographic distribution of abnormal formation pressure and geology of geopressured resources, require descriptors not found in either the DOE or LBL geothermal vocabulary.

3.0 Compatibility

The overlap in coverage between the GGIS Bibliographic Data Base and LBL's GEODOC and DOE's RECON data base increases the possibility of exchange of materials between data bases. To ensure compatibility with these data bases, vocabulary links between the thesauri have been incorporated into the Geopressure Thesaurus in the form of USE references. These references guide the user from the form of term used in other thesauri to the term expressing the same concept in the Geopressure Thesaurus.

Geopressured Geothermal Bibliography

The same style of coordinate indexing used in the LBL Geothermal Thesaurus and DOE's Subject Thesaurus has been adopted so that compatibility in hierarchical structure may also be maintained.

4.0 Display Format

The Geopressure Thesaurus differs from most conventional thesauri in that it will be available in an on-line display for interactive searching at a computer terminal. This capability represents a departure from the static, noninteractive searching required in the use of the typical thesaurus which is available in hard-copy only.

An on-line display has several advantages:

1. Availability of the Thesaurus

The user doesn't need a copy of the thesaurus while searching because he always has access to the most current version of the thesaurus via his computer terminal.

2. Facility of Use

In an on-line display the computer looks up the term for the user, thus reducing the amount of time spent by the user finding thesaurus terms and devising search strategies for computer-based retrieval.

Looking at a display for a particular descriptor, the user may decide that he wants to expand it. He can then call up the display for narrower descriptors. The process can be repeated until the proper descriptor is found.

3. Flexibility of Thesaurus Maintenance

A thesaurus is a dynamic structure which must be continuously revised and updated based on experience in its use so as to reflect the most recent developments in the subject field. Since the input data for the Geopressure Thesaurus is stored in machine-readable form on magnetic media, updating and revision can be continuous. Additions and deletions of terms can be made within the body of the thesaurus rather than in periodic supplements.

5.0 Thesaurus Structure

The guidelines for "Thesaurus Structure, Construction, and Use" (2) issued by the Z39 committee of the American National Standards Institute (ANSI) have been adopted as the standards for the Geopressure Thesaurus.

5.1 Cross-Reference Structure

The relationships used in the GGIS Thesaurus are the following:

Cross-References	Symbols
------------------	---------

Use	USE
Broader (more general) term	BT
Narrower (more specific) term	NT
Related term	RT
See	SEE

USE references lead the thesaurus user from a term that is not an authorized term in the system to one that is authorized. They prevent information from being dispersed in the data base under different descriptors representing identical concepts. USE references often refer to a preferred synonym, for example, GEOPRESSED REGIONS USE GEOPRESSED ZONES. They also may refer to or from an abbreviation, for example, UNITED STATES OF AMERICA USE USA. The reciprocal of the USE reference, the USED FOR reference, which would ordinarily accompany the term to which the USE reference refers, does not appear in the displays for descriptors in the Geopressure Thesaurus.

The BROADER TERM (BT) and NARROWER TERM (NT) relationships show class membership or geographic inclusion. A BT reference leads the user to a more general term and a NT reference leads to a more specific term; for each BROADER TERM reference there is a corresponding NARROWER TERM reference, for example,

INJECTION WELLS	WELLS
BT1 WELLS	NT1 INJECTION WELLS

The number following the relationship symbol indicates the level in the hierarchy.

TEXAS	USA
BT1 USA	BT1 NORTH AMERICA
BT2 NORTH AMERICA	NT1 TEXAS
NT1 CAMERON COUNTY	
NT1 NUECES COUNTY	

The RELATED TERM reference is used as a guide from a given term to other terms that are closely related in ways other than the BT-NT relationship and that the user might want to be reminded of in his search for the most appropriate authorized descriptor. It may also serve to suggest other fruitful search strategies to the searcher.

PERMEABILITY	POROSITY
RT POROSITY	RT PERMEABILITY

SEE references are discussed in the Term Entry section.

5.2 Term Form

Terms chosen for inclusion in the thesaurus are regularized in form in accordance with the ANSI standards for thesauri. Terms may consist of one to several words but should represent a single concept. In general, noun forms such as single nouns, noun phrases, or gerunds are preferred to

Geopressured Geothermal Bibliography

adjectival or verb forms. For example, OFFSHORE LICENSING is used rather than LICENSE; INJECTION rather than INJECT. Noun phrases are written to exclude prepositions, for example HEAT EFFECTS rather than EFFECTS OF HEAT. The singular form is used for processes, properties, and unique things; the plural form is used for classes of things.

Examples are:

1. Processes:
Cooling
Inspection
Metamorphism
Sedimentation
2. Properties:
Density
High Pressure
Salinity
Viscosity
3. Unique Things:
Earth Planet
Oxygen
4. Classes of Things:
Gases
Petroleum Deposits
Salts

5.3 Term Entry

Terms consisting of two or more words are entered in their natural word order, for example, BOTTOM HOLE PRESSURE rather than PRESSURE, BOTTOM HOLE. In most thesauri the inverted forms are included as cross-references, for example, PRESSURE (BOTTOM HOLE) USE BOTTOM HOLE PRESSURE. However, inverted entries pose a problem in a thesaurus with an on-line display since the computer only searches for the form of the term entered by the user and inverted terms may be entered in several different ways. This problem is especially evident for terms like PRESSURE and TEMPERATURE which are considered too broad for indexing and searching in a thesaurus of geopressure terms yet have many narrower terms, e.g., BOTTOM HOLE PRESSURE, FLUID PRESSURE, HIGH PRESSURE, which require inverted entry cross-references. In the Geopressure Thesaurus this problem has been handled by grouping the narrower terms under the broader term with a SEE reference indicating that one or more of the narrower terms should be substituted for the broader term, for example:

PRESSURE
SEE BOTTOM HOLE PRESSURE
FLUID PRESSURE
VAPOR PRESSURE

SEE references also serve another related purpose. Because the thesaurus is computer generated, each word in a compound term, such as THERMAL EFFLUENTS, is indexed, along with the compound term. To indicate that these

individual words are not legitimate descriptors, SEE references are used to direct the user to the appropriate compound term(s). For example, THERMAL EFFLUENTS appears as two separate words:

EFFLUENTS	THERMAL
SEE THERMAL EFFLUENTS	SEE GEOTHERMAL FLUIDS
SEE WASTE HEAT	SEE THERMAL EFFLUENTS

as well as in its correct phrase form:

THERMAL EFFLUENTS
RT GEOTHERMAL FLUIDS
RT WASTE HEAT

The SEE references will also indicate related terms listed under the correct compound term, hence the appearance of WASTE HEAT under EFFLUENTS and GEOTHERMAL FLUIDS under THERMAL. Both are related terms of THERMAL EFFLUENTS.

In the case of compound terms which are not themselves legitimate terms, both SEE and USE references are provided, for example, ACID TREATMENT:

ACID
SEE ACIDIZATION

ACID TREATMENT
USE ACIDIZATION

TREATMENT
SEE ACIDIZATION

6.0 Method of Preparation

A combination of approaches has been used in the construction of the geopressured geothermal vocabulary. First, a small test thesaurus was prepared by converting part of the list of descriptors used by other data bases to index geopressure information into a hierarchical structure. The Lawrence Berkeley Laboratory Geothermal Thesaurus served as the prototype for the hierarchical structure. Second, in order to ensure that the vocabulary reflects current usage in the field, candidate terms were collected from titles, abstracts, and indexing of a representative sample of documents, including documents stored in GEOBIB, numerous review articles, textbooks, and glossaries. Finally, terms were extracted from other more general vocabularies such as "The LBL Geothermal Thesaurus," "DOE Energy Information Data Base Subject Thesaurus," the Engineers Joint Council "Thesaurus of Engineering Terms" (5), the "Thesaurus of Water Resource Terms" prepared by the Bureau of Reclamation of the U.S. Department of the Interior (9), the American Petroleum Institute "API Thesaurus" (3), the American Geological Institute "GeoRef Thesaurus and Guide to Indexing" (1), the Engineering Index "SHE: Subject Headings for Engineering" (4), and the "Exploration and Production Thesaurus" prepared by the University of Tulsa (10).

Geopressured Geothermal Bibliography

7.0 Work Plan

The flow chart in Figure 2 illustrates the general flow of work in thesaurus construction. This procedure has been followed in the construction of the Geopressure Thesaurus with the exception that a small test thesaurus was prepared using terms from a single primary source. This minithesaurus was then refined and expanded with terms derived from other sources.

As with all thesauri, there are terms which have been inadvertently omitted and terms included whose usefulness is doubtful. In order to detect omissions, ambiguities, redundancies, errors, and needed additional cross-references, three types of tests will be performed:

- Consultation with subject experts
- Interactive retrieval experiments, including analysis of user search requests
- Indexing experiments

Since a thesaurus is a dynamic structure in need of continuous revision, the list of terms will be reviewed periodically and the classificatory structure refined to ensure effective retrieval. Unused terms will be evaluated for possible elimination and new terms will be added when they are needed for indexing. A new thesaurus will be published annually to alert users to these changes.

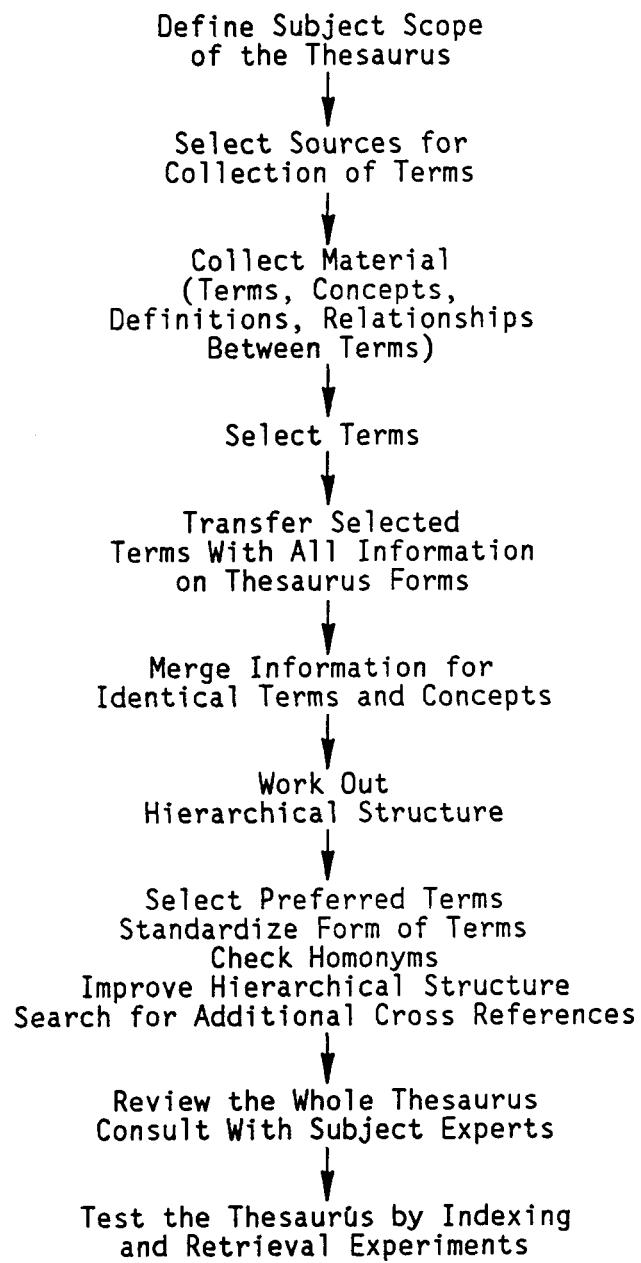


FIGURE 2 Flow of Work in Thesaurus Construction

Geopressured Geothermal Bibliography

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10. University of Tulsa. Information Services Division. "Exploration and Production Thesaurus." 5th ed. Tulsa, OK: University of Tulsa, 1976.

9.0 Citations

Abandoned wells

BT1 Wells
 RT Natural gas wells
 RT Oil wells
 See Abandonment
 See Well abandonment

Abatement

NT1 Air pollution abatement
 NT1 Land pollution abatement
 NT1 Noise pollution
 abatement
 NT1 Water pollution
 abatement
 RT Control
 RT Environmental effects
 Also see Air pollution
 Also see Air pollution
 control
 Also see Land pollution
 Also see Land pollution
 control
 Also see Noise pollution
 Also see Noise pollution
 control
 Also see Pollution control
 equipment
 Also see Water pollution
 Also see Water pollution
 control

Abnormal

See Geopressure
 See Subnormal formation
 pressure

Abnormal formation pressure

Use Geopressure

Abnormal pressure

Use Geopressure
 Use Subnormal formation
 pressure

Abrasion

RT Corrosion
 RT Erosion

Absorption

See Absorption spectroscopy
 See Chemisorption

Absorption (chemical)

Use Chemisorption

Absorption spectroscopy

BT1 Measuring methods

Abstract

See Leading abstract

Abstracts

BT1 Document types
 NT1 Leading abstract

Abundance

RT Availability
 RT Chemical composition
 RT Distribution

Acadia

See Acadia Parish

Acadia Parish

BT1 Louisiana
 BT2 Gulf Coast

Accidents

NT1 Blowouts
 RT Environment
 RT Errors
 RT Failures
 RT Flammability
 RT Hazards
 RT Insurance
 RT Liabilities
 RT Safety
 RT Site selection

Accumulation

RT Accumulation rate
 RT Deposition

Accumulation rate

BT1 Rates
 RT Accumulation
 RT Deposition
 RT Sedimentation

Accuracy

RT Calibration
 RT Sensitivity

Acid

See Acidization

Acid treatment

Use Acidization

Geopressured Geothermal Bibliography

Acidification
Use Ph adjustment

Acidity
Use Ph value

Acidization
RT Permeability
RT Permeability restoration
RT Ph adjustment
RT Scrubbing
RT Well stimulation

Acidizing
See Acidization

Acoustic
See Acoustic monitoring
See Sonic logging
See Sound velocity
See Sound waves

Acoustic logging
Use Sonic logging

Acoustic monitoring
BT1 Monitoring
RT Sonic logging

Acoustic velocity
Use Sound velocity

Acoustic waves
Use Sound waves

Acquisition
See Data acquisition systems
See Detection

Actinides
BT1 Metals
BT2 Elements
NT1 Plutonium
NT1 Thorium
NT1 Uranium

Activation
See Environmental effects
See Fault systems
See Faults
See Waste disposal

Active
See Active faults

Active faults
BT1 Faults
BT2 Geologic structures

Activity
See Volcanism

Adjustment
See Ph adjustment

Administration
Also see US ERDA
Use Management

Adsorption
RT Chemisorption
RT Deposition
RT Separation processes
RT Surface properties

Adularia
BT1 Feldspars
BT2 Silicate minerals

Aerial
See Aerial surveys

Aerial prospecting
Use Aerial surveys

Aerial surveys
BT1 Exploration methods
RT Remote sensing

Africa
BT1 Continents
NT1 Nigeria

Age
See Geochronology

Age estimation
Use Geochronology

Agency
See US EPA

Ages
See Geologic times

Agreements
RT Contracts
RT Recommendations
RT Regulations

Agriculture

RT Crops
 RT Cultivation techniques
 RT Direct energy utilization
 RT Domestic animals
 RT Ecosystems
 RT Irrigation
 RT Plants
 RT Soil warming
 RT Soils

Air

BT1 Gases
 BT2 Fluids
 RT Air analysis
 RT Air cleaning
 RT Air conditioning
 RT Air quality
 RT Earth atmosphere
 RT Gas ejectors
 RT Troposphere
 RT Wind
 Also see Air analysis
 Also see Air analysis
 Also see Air monitoring
 Also see Air pollution
 Also see Air pollution
 abatement
 Also see Air pollution
 control
 Also see Air pollution
 monitors
 Also see Cooling
 Also see Cooling systems
 Also see Direct energy
 utilization
 Also see Gas ejectors
 Also see Gaseous wastes
 Also see Pollution control
 equipment
 Also see Scrubbers
 Also see Thermal insulation
 Also see Water analysis

Air analysis

BT1 Analysis
 BT1 Gas analysis
 BT2 Chemical analysis
 methods
 RT Air
 RT Air monitoring
 RT Air pollution
 RT Air pollution monitors
 RT Water analysis

Air cleaning

RT Air

Air conditioning

RT Air
 RT Cooling
 RT Cooling systems
 RT Direct energy utilization
 RT Thermal insulation

Air ejectors

Use Gas ejectors

Air monitoring

BT1 Monitoring
 RT Air analysis
 RT Air pollution
 RT Air pollution monitors
 RT Water monitoring

Air pollution

BT1 Pollution
 RT Air analysis
 RT Air monitoring
 RT Air pollution abatement
 RT Air pollution control
 RT Air pollution monitors
 RT Air quality
 RT Earth atmosphere
 RT Environmental effects
 RT Gaseous wastes
 RT Hydrogen sulfides
 RT Odor
 RT Scrubbers

Air pollution abatement

BT1 Abatement
 RT Air pollution
 RT Air pollution control
 RT Desulfurization
 RT Pollution control
 equipment
 RT Scrubbers

Air pollution control

BT1 Pollution control
 BT2 Control
 RT Air pollution
 RT Air pollution abatement
 RT Air pollution monitors

Air pollution monitors

RT Air analysis
 RT Air monitoring
 RT Air pollution
 RT Air pollution control

Air quality

RT Air
 RT Air pollution

Geopressured Geothermal Bibliography

Alabama

BT1 USA
BT2 North America
RT Chattahoochee River
RT Chattahoochee Formation
RT Gulf Coast
RT Smackover Formation
RT Tennessee River
RT Vicksburg Formation

Alamos

See LASL

Alaska

BT1 USA
BT2 North America

Albite

BT1 Plagioclases
BT2 Feldspars

Algorithms

RT Computer codes
RT Mathematics

Alkali

See Alkali metals

Alkali metals

BT1 Metals
BT2 Elements
NT1 Cesium
NT1 Francium
NT1 Lithium
NT1 Potassium
NT1 Rubidium
NT1 Sodium

Alkaline

See Alkaline earth metals

Alkaline earth metals

BT1 Metals
BT2 Elements
NT1 Barium
NT1 Beryllium
NT1 Calcium
NT1 Magnesium
NT1 Radium
NT1 Strontium

Alkalinity

Use Ph value

Alkanes

BT1 Hydrocarbons
BT2 Organic compounds
NT1 Ethane
NT1 Hexane
NT1 Methane
NT1 Pentane
NT1 Propane
NT1 2-methylpropane

Allocations

RT Budgets
RT Distribution
RT Economic policy
RT Energy policy
RT Management
RT Planning

Alloys

NT1 Corrosion resistant
alloys
NT1 Steels
Also see Corrosion
Also see Pitting corrosion

Alluvial

See Alluvial deposits
See Alluvium

Alluvial deposits

BT1 Sediment deposits
BT2 Sediments
RT Alluvium

Alluvium

BT1 Geologic deposits
RT Alluvial deposits
RT Deltas
RT Sediment deposits
RT Sediments

Alteration

See Burial
See Hydrothermal alteration

Altitude

Aluminum

BT1 Metals
BT2 Elements
Also see Aluminum inorganic
compounds

Aluminum inorganic compounds

Alunite

BT1 Sulfate minerals
BT2 Minerals

America

See Central America
See North America
See South America
See USA

Ammonia

BT1 Hydrogen inorganic compounds
BT1 Nitrogen inorganic compounds
RT Dissolved gases

Amorphous

See Crystallization

Amorphous state

RT Crystallization

Amounts

See Trace amounts

Amphiboles

BT1 Silicate minerals
BT2 Minerals

Amphibolite

BT1 Metamorphic rocks
BT2 Rocks

Anadarko

See Anadarko Basin
See Oklahoma
See Texas

Anadarko Basin

BT1 Geologic provinces
RT Oklahoma
RT Texas

Analysis

NT1 Air analysis
NT1 Chemical analysis
NT1 Data analysis
NT1 Gas analysis
NT1 Water analysis
Also see Air
Also see Air analysis
Also see Air monitoring
Also see Air pollution
Also see Air pollution monitors
Also see Chemical analysis methods
Also see Chemical composition
Also see Chemistry
Also see Comparative evaluations
Also see Cost
Also see Data
Also see Dissolved gases
Also see Ecology
Also see Economics
Also see Environment
Also see Failures
Also see Fairway analysis
Also see Gas analysis
Also see Gas chromatography
Also see Gases
Also see Human populations
Also see Mathematical methods
Also see Measuring methods
Also see Numerical analysis
Also see Qualitative chemical analysis
Also see Quantitative chemical analysis
Also see Simulation
Also see Sociology
Also see Systems analysis
Also see Trend analysis
Also see Trend maps
Also see Water monitoring
Also see Water pollution

Andesine

BT1 Plagioclases
BT2 Feldspars

Andesite

BT1 Extrusive rocks
BT2 Igneous rocks

Andesites

Use Andesite

Geopressured Geothermal Bibliography

Andreas
See San Andreas Fault

Anhydrite
BT1 Sulfate minerals
BT2 Minerals
RT Calcium sulfates
RT Gypsum

Animal
See Animal shelters
See Farm buildings

Animal shelters
BT1 Buildings
RT Farm buildings

Animals
NT1 Aquatic organisms
NT1 Domestic animals
NT1 Invertebrates
NT1 Wild animals
RT Biology
Also see Agriculture

Anions
BT1 Ions
RT Electrolysis

Anisotropy
RT Distribution
RT Isotropy

Anorthosite
BT1 Intrusive rocks
BT2 Igneous rocks

Anthropogenic
See Anthropogenic occurrence
See Industry
See Natural occurrence

Anthropogenic occurrence
RT By-products
RT Industry
RT Natural occurrence

Anticlines
BT1 Folds
BT2 Geologic structures
NT1 Diapirs
NT1 Geanticlines
RT Anticlinoria
RT Petroleum deposits
RT Salt deposits

Anticlinoria
BT1 Fold systems
BT2 Geologic structures
RT Anticlines

Antifoulants
RT Corrosion
RT Deposits
RT Fouling

Antimony
BT1 Metals
BT2 Elements

Apartment
See Apartment buildings

Apartment buildings
BT1 Residential buildings
BT2 Buildings

Aphanite
Use Aphanitic rocks

Aphanitic
See Aphanitic rocks

Aphanitic rocks
BT1 Igneous rocks
BT2 Rocks

Appalachia
BT1 USA
BT2 North America

Applications
Also see Direct energy utilization
Use Uses

Aquaculture
RT Fishes
RT Waste heat

Aquatic
See Aquatic ecosystems
See Aquatic organisms
See Environment
See Fishes

Aquatic ecosystems
BT1 Ecosystems
RT Aquatic organisms
RT Environment
RT Fishes
RT Hydrosphere
RT Limnology

Aquatic habitats

Use Aquatic ecosystems

Aquatic organisms

BT1 Animals

BT1 Plants

BT2 Biomass

NT1 Fishes

NT1 Plankton

RT Aquatic ecosystems

Aqueous

See Aqueous solutions

Aqueous solutions

BT1 Solutions

RT Hydrolysis

RT Nonaqueous solutions

RT Ph value

Aquiclude

RT Aquifers

RT Saline aquifers

Aquiculture

Use Aquaculture

Aquifer

See Aquifer tests

See Aquifers

See Observation wells

Aquifer rehabilitation

RT Aquifers

RT Pollution

Aquifer tests

RT Observation wells

RT Test facilities

Aquifers

BT1 Subsurface reservoirs

NT1 Artesian aquifers

NT1 Saline aquifers

RT Aquiclude

RT Aquifer rehabilitation

RT Aquitards

RT Artesian basins

RT Cap rock

RT Geopressured reservoirs

RT Geothermal reservoirs

RT Ground water

RT Ground water recharge

RT Hydrogeology

RT Permeability restoration

RT Transmissivity

RT Water influx

RT Water springs

RT Water table

Also see Artesian water

Also see Brines

Also see Subsurface waters

Also see Waste disposal

Aquitards

RT Aquifers

Arabian

See Arabian sea

Arabian Gulf

Use Arabian Sea

Arabian Sea

BT1 Indian Ocean

BT2 Seas

Arbitration

RT Hearings

RT Lawsuits

Arcts

See Island arcts

Arctic

See Arctic regions

See Climates

Arctic regions

BT1 Polar regions

RT Climates

Areal

See Areal geology

Geopressured Geothermal Bibliography

Areal geology

BT1 Geology
RT Geography

Areas

See Geopressured zones
See Geothermal fields
See KGRAs
See Rural populations
See Urban areas
See Urban populations
See Zoning

Argillaceous rocks

RT Clay
RT Clay minerals
RT Sedimentary rocks
RT Sediments
RT Shale
See Argillaceous deposits
See Argillaceous sediment

Argon

BT1 Rare gases
BT2 Nonmetals

Arizona

BT1 USA
BT2 North America

Arkansas

BT1 USA
BT2 North America
RT Morrow formation

Arsenic

BT1 Semimetals
BT2 Elements

Artesian

See Artesian aquifers
See Artesian basins
See Artesian pressure
See Artesian water
See Free water
See Ground water
See Subsurface waters
See Water springs

Artesian aquifers

BT1 Aquifers
BT2 Subsurface reservoirs
RT Artesian basins
RT Artesian water
RT Subsurface waters

Artesian basins

RT Aquifers
RT Artesian aquifers
RT Artesian wells
RT Ground water

Artesian pressure

BT1 Hydropressure

Artesian water

BT1 Subsurface waters
RT Artesian aquifers
RT Artesian wells
RT Basins
RT Free water
RT Ground water

Artesian wells

RT Artesian basins
RT Artesian water
RT Water springs

Artificial

See Artificial recharge
See Overdraft

Artificial recharge

BT1 Ground water recharge
RT Injection wells
RT Overdraft

Asia

BT1 Continents
NT1 China
NT1 India
NT1 Japan
NT1 Pakistan
NT1 Phillipines
NT1 Turkey
RT Urals
RT USSR

Aspects

See Global aspects
See Government policies
See Inspection
See Land leasing
See Laws
See Leasing
See Legal aspects
See Management
See Mineral rights
See Ownership
See Patents
See Recommendations

Assessment

See Feasibility studies
 See Industry
 See Resource assessment

Assignments

Use Allocations

Associated

See Dissolved gases

Associated gases

Use Dissolved gases

Astatine

BT1 Halogens
 BT2 Nonmetals

Atlantic

See Atlantic Ocean

Atlantic Ocean

BT1 Seas
 BT2 Surface waters
 NT1 Caribbean Sea
 NT1 North Sea

Atmosphere

See Air
 See Air pollution
 See Atmospheric precipitations
 See Earth atmosphere
 See Environment
 See Meteorology

Atmosphere (Earth)

Use Earth atmosphere

Atmospheric

See Air pollution
 See Atmospheric precipitations

Atmospheric pollution

Use Air pollution

Atmospheric precipitations

BT1 Meteorology
 NT1 Frost
 NT1 Rain
 NT1 Snow
 RT Climates
 RT Earth atmosphere
 RT Floods
 RT Hydrosphere
 RT Meteoric water
 RT Seasons
 RT Storms
 RT Surface waters
 RT Water
 RT Weather

Atomic

See US AEC

Attitudes

See Public opinion

Austin Bayou Prospect

BT1 Brazoria Fairway
 BT2 Frio Formation
 BT1 Brazoria County
 BT2 Texas
 BT3 USA
 NT1 Chocolate Bayou
 Geothermal Field

Australasia

NT1 Australia
 NT1 New Zealand
 NT1 New Guinea

Australia

BT1 Australasia
 BT1 Continents
 RT New Guinea

Automatic

See Data processing

Automatic data processing

Use Data processing

Availability

RT Abundance
 RT Economics
 RT Energy reserves
 RT Energy sources
 RT Geologic deposits
 RT Geopressure resources
 RT Geothermal resources
 RT Resource depletion

Geopressured Geothermal Bibliography

AEC
See US AEC

Back
See Back pressure
See Bottom hole pressure

Back pressure
RT Bottom hole pressure
RT Well testing

Bacteria
BT1 Microorganisms
RT Plankton

Balance
See Energy balance

Balance (energy)
Use Energy balance

Bar
See Elevated pressure
See High pressure
See Low pressure
See Moderate pressure
See Standard pressure

Barite
BT1 Sulfate minerals
BT2 Minerals
RT Barium sulfates

Barium
BT1 Alkaline earth metals
BT2 Metals
Also see Barium inorganic compounds

Barium inorganic compounds
NT1 Barium sulfates

Barium sulfates
BT1 Barium inorganic compounds
BT1 Sulfates
BT2 Sulfur inorganic compounds
BT2 Oxygen inorganic compounds
RT Barite

Barrel
See Coring equipment

Barrier
See Stratigraphic traps

Barriers
See Permeability barriers

Basalt
BT1 Extrusive rocks
BT2 Igneous rocks

Baseline Ecology
BT1 Ecology

Basicity
Use Ph value

Basin
See Anadarko basin
See Carpathian basin
See Caspian sea
See Delaware basin
See Gulf Coast
See Oklahoma
See Texas
See Uinta basin
See Utah
See USSR

Basins
BT1 Geologic structures
NT1 Ocean basins
NT1 Sedimentary basins
RT Artesian water
RT Water reservoirs
Also see Artesian basins
Also see Ground water

Batholiths
BT1 Igneous intrusions
RT Discordant intrusions
RT Stock intrusions

Bays
RT Seas

Bearings

Bed
See Earth crust
See Formation thickness
See Marine geology
See Sea bed
See Seas
See Sediments

Bed thickness
Use Formation thickness

Benefit
 See Comparative evaluations
 See Cost
 See Economics

Benioff
 See Plate tectonics
 See Submarine trenches

Benioff zones
 RT Plate tectonics
 RT Submarine trenches

Beryllium
 BT1 Alkaline earth metals
 BT2 Metals

Bibliographies
 BT1 Document types

Binary
 See Binary cycle power generation
 See Binary cycles
 See Gas turbine power generation
 See Geothermal energy conversion
 See Thermodynamic cycles

Binary cycle power generation
 BT1 Power generation
 RT Binary cycles
 RT Gas turbine power generation

Binary cycles
 RT Binary cycle power generation
 RT Thermodynamic cycles

Binary fluid systems
 RT Gas turbine power generation
 RT Geothermal energy conversion
 RT Thermodynamic cycles

Biological
 See Biological effects
 See Biology
 See Environmental effects

Biological effects
 BT1 Effects
 RT Biology
 RT Environmental effects
 RT Toxicity

Biology
 NT1 Ecology
 RT Animals
 RT Biological effects
 RT Biosphere
 RT Ecosystems
 RT Fishes
 RT Microorganisms
 RT Plants

Biomass
 NT1 Plants

Biosphere
 RT Biology
 RT Ecosystems
 RT Environment
 RT Populations

Biostratigraphy
 BT1 Stratigraphy
 RT Foraminifera
 RT Paleoecology
 RT Paleontology
 RT Zonation

Biotite
 BT1 Micas
 BT2 Silicate minerals

Biotope
 Use Depositional environment

Bismuth
 BT1 Metals
 BT2 Elements

Bits
 See Drill bits
 See Drill pipes
 See Drills
 See Well drilling

Block
 See Eugene Island Block 18 Field

Blocks
 Also see Fault blocks
 Use Geologic structures

Geopressured Geothermal Bibliography

Blowout

See Blowout preventers
See Blowouts
See Natural gas wells
See Oil wells

Blowout preventers

RT Blowouts
RT Drilling equipment
RT Natural gas wells
RT Oil wells

Blowouts

BT1 Accidents
RT Blowout preventers
RT Kicks
RT Oil wells
RT Pressure release
RT Safety
RT Well drilling
RT Wells

Blue

See Methylene blue

Boilers

RT Boiling
RT Thermal power plants

Boiling

BT1 Phase transformations
RT Boilers
RT Evaporation
RT Heat transfer
RT Heating
RT Steam generators
RT Two phase flow

Bond

See Cement bond logging

Bop

Use Blowout preventers

Borehole

See Hole diameter

Borehole diameter

Use Hole diameter

Boreholes

RT Jets
RT Rock drilling
RT Subterrane penetrators
RT Well drilling
RT Well logging
RT Wells

Boring

Use Well drilling

Borneo

BT1 Islands

Boron

BT1 Semimetals
BT2 Elements
Also see Boron inorganic compounds

Boron inorganic compounds

Bottom

See Bottom hole pressure
See Bottom hole temperature
See Downhole pumps
See Reservoir temperature
See Temperature logging
See Wells

Bottom hole pressure

BT1 Well characteristics
RT Back pressure
RT Formation testing
RT Pressure measurement
RT Reservoir pressure
RT Well data
RT Wells

Bottom hole pumps

Use Downhole pumps

Bottom hole temperature

BT1 Well characteristics
RT Formation testing
RT Reservoir temperature
RT Temperature logging
RT Well testing
RT Well data
RT Wells

Bound

See Hygroscopic water

Bound water

Use Hygroscopic water

Brackish

See Brackish water
See Brines
See Salinity
See Salt water
See Subsurface waters

Brackish water
 BT1 Water
 RT Brines
 RT Salinity
 RT Salt water
 RT Subsurface waters

Brayton
 See Brayton cycle
 See Gas turbine power generation
 See Power generation

Brayton cycle
 BT1 Thermodynamic cycles
 RT Brayton cycle power generation
 RT Brayton cycle power systems
 RT Gas turbine power generation

Brayton cycle power generation
 RT Brayton cycle

Brayton cycle power systems
 RT Brayton cycle
 RT Power generation

Brazoria
 See Brazoria County

Brazoria County
 BT1 Texas
 BT2 Gulf Coast
 NT1 Austin Bayou Prospect

Brewster
 See Brewster County

Brewster County
 BT1 Texas
 BT2 Gulf Coast

Brine
 See Brines
 See Liquid wastes
 See Ph adjustment
 See Waste disposal

Brine disposal
 Use Waste disposal

Brine treatment
 RT Brines
 RT Liquid wastes
 RT Ph adjustment
 RT Waste disposal

Brines
 BT1 Solutions
 NT1 Geothermal brines
 RT Brackish water
 RT Brine treatment
 RT Corrosion
 RT Corrosive effects
 RT Geothermal fluids
 RT Saline aquifers
 RT Salinity
 RT Salt water
 RT Salts
 RT Sea water
 Also see Thermal effluents
 Also see Thermal waters

Brittleness
 BT1 Mechanical properties
 RT Elasticity

Bromides
 BT1 Halides
 BT1 Bromine inorganic compounds

Bromine
 BT1 Halogens
 BT2 Nonmetals
 Also see Bromine inorganic compounds

Bromine inorganic compounds
 NT1 Bromides

Brooks
 See Brooks County

Brooks County
 BT1 Texas
 BT2 Gulf Coast

Budget
 See Heat budget
 See Lakes
 See Specific heat

Geopressured Geothermal Bibliography

Budgets

RT Allocations
RT Charges
RT Constraints
RT Cost
RT Economics
RT Financing

Buildings

NT1 Animal shelters
NT1 Commercial buildings
NT1 Farm buildings
NT1 Greenhouses
NT1 Industrial buildings
NT1 Mobile homes
NT1 Public buildings
NT1 Residential buildings
RT Construction
RT Retrofitting
Also see Apartment buildings
Also see Office buildings

Buildup

Also see Pressure buildup
Use Accumulation

Bulk

See Density

Bulk density

Use Density

Bureau

See US Bureau of Reclamation

Bureau of Reclamation

Use US Bureau of Reclamation

Burial

RT Compaction
RT Diagenesis
RT Hydrothermal alteration
RT Lithification
RT Metamorphism
RT Mineralization
RT Sedimentation
Also see Depth

Burial depth

Use Depth

By-products

RT Anthropogenic occurrence
RT Desalination
RT Economics
RT Industry
RT Recovery processes

Cadmium

BT1 Metals
BT2 Elements

Calcasieu

See Calcasieu Parish

Calcasieu Parish

BT1 Louisiana
BT2 Gulf Coast

Calcite

BT1 Carbonate minerals
BT2 Minerals
RT Calcium carbonates
RT Limestone
RT Marble

Calcium

BT1 Alkaline earth metals
BT2 Metals
Also see Calcite
Also see Calcium chlorides
Also see Calcium inorganic compounds
Also see Calcium sulfates
Also see Calcium carbonates
Also see Dolomite

Calcium carbonates

BT1 Calcium inorganic compounds
BT1 Carbonates
BT2 Oxygen inorganic compounds
RT Calcite
RT Dolomite

Calcium chlorides

BT1 Calcium inorganic compounds
BT1 Chlorides
BT2 Chlorine inorganic compounds

Calcium inorganic compounds

NT1 Calcium carbonates
NT1 Calcium chlorides
NT1 Calcium sulfates

Calcium sulfates
 BT1 Calcium inorganic compounds
 BT1 Sulfates
 BT2 Oxygen inorganic compounds
 BT2 Sulfur inorganic compounds
 RT Anhydrite
 RT Gypsum

Calculation
 See Mathematical methods
 See Measurement
 See Measuring methods
 See Numerical solution

Calculation methods
 RT Mathematical methods
 RT Measurement
 RT Measuring methods
 RT Numerical solution

Calculations
 See Computer codes
 See Computers
 See Data analysis
 See Numerical analysis
 See Numerical solution

Caldera
 See Valles Caldera
 Geothermal Field
 See Vapor dominated systems

Calibration
 RT Accuracy
 RT Measuring instruments
 RT Measuring methods
 RT Sensitivity

California
 BT1 USA
 BT2 North America
 NT1 Coalinga
 NT1 Coso Hot Springs KGRA
 NT1 Geysers Geothermal Field
 NT1 Great Valley
 NT1 Imperial County
 NT1 Imperial Valley
 NT1 Kettleman Hills
 NT1 Lost Hills
 NT1 Mono-long Valley KGRA
 NT1 San Andreas Fault
 NT1 San Joaquin Valley
 RT Coast ranges
 RT Franciscan Formation

Caliper
 See Caliper logging
 See Hole diameter

Caliper logging
 BT1 Well logging
 RT Hole diameter

Calstic
 See Facies maps

Calstic ratio
 RT Facies maps

Calstic ratio maps
 RT Facies maps

Cambrian
 See Cambrian Period

Cambrian Period
 BT1 Paleozoic Era
 BT2 Geologic times

Cameron
 See Cameron County
 See Cameron Parish

Cameron County
 BT1 Texas
 BT2 Gulf Coast

Cameron Fairway
 BT1 Texas
 BT2 USA
 BT3 North America

Cameron Parish
 BT1 Louisiana
 BT2 Gulf Coast

Cane
 See Sugar cane

Cap
 See Aquifers
 See Dissolved gases
 See Rocks
 See Salt domes
 See Traps

Cap rock
 RT Aquifers
 RT Rocks
 RT Salt domes
 RT Traps

Geopressured Geothermal Bibliography

Capacity
See Specific heat

Capillary
See Capillary water
See Free water

Capillary pressure
RT Capillary water
RT Pore pressure
RT Surface properties

Capillary water
BT1 Subsurface waters
RT Free water

Capillary Flow
BT1 Fluid flow

Capital
RT Cost
RT Economics
RT Financing
RT Investment

Caps
See Natural gas

Carbon
BT1 Nonmetals
BT2 Elements
Also see Carbon dioxide
Also see Carbon inorganic compounds
Also see Carbon steels
Also see Dissolved Gases

Carbon dioxide
BT1 Carbon inorganic compounds
BT1 Oxygen inorganic compounds
RT Dissolved gases

Carbon inorganic compounds
NT1 Carbon dioxide
NT1 Carbonates

Carbon steels
BT1 Steels
BT2 Alloys

Carbonate
See Carbonate minerals
See Carbonate rocks
See Carbonates
See Sedimentary rocks

Carbonate minerals
BT1 Minerals
NT1 Calcite
NT1 Dolomite
NT1 Shortite
NT1 Siderite
RT Carbonate rocks
RT Carbonates

Carbonate rocks
BT1 Reservoir rocks
BT2 Rocks
RT Carbonate minerals
RT Dolomite
RT Limestone
RT Sedimentary rocks

Carbonates
BT1 Carbon inorganic compounds
BT1 Oxygen inorganic compounds
NT1 Calcium carbonates
RT Carbonate minerals
Also see Calcite
Also see Calcium carbonates
Also see Dolomite
Also see Magnesium carbonates

Carboniferous
See Carboniferous Periods

Carboniferous Periods
BT1 Paleozoic Era
BT2 Geologic times
NT1 Mississippian Period
NT1 Pennsylvanian Period

Caribbean
See Caribbean Sea

Caribbean Sea
BT1 Atlantic Ocean
BT2 Seas
NT1 Gulf of Mexico

Carnot
See Carnot cycle

Carnot cycle
BT1 Thermodynamic cycles

Carpathian
See Carpathian Basin

Carpathian Basin
 BT1 Hungary
 BT2 Europe

Case
 See Case histories
 See Field studies

Case histories
 BT1 Document types
 RT Field studies

Casing programs
 BT1 Design
 RT Well casings
 RT Well completion

Casings
 See Well casings
 See Well design
 See Well drilling
 See Wells

Caspian
 See Caspian Sea
 See USSR

Caspian Basin
 RT Caspian Sea
 RT USSR

Caspian Sea
 BT1 Lakes
 BT2 Surface waters
 RT Caspian Basin
 RT USSR

Catagenesis
 RT Diagenesis
 RT Sediments

Cations
 BT1 Ions
 RT Electrolysis

Cavitation
 RT Descaling
 RT Erosion
 RT Fluid flow
 RT Pitting corrosion

Cavitation erosion
 Use Cavitation

Cells
 See Convection
 See Earth mantle
 See Plate tectonics
 See Tectonics

Cement
 See Cement bond logging

Cement bond logging
 BT1 Well logging
 RT Sonic logging

Cementing
 See Drilling
 See Well cementing
 See Well design

Cenozoic
 See Cenozoic Era

Cenozoic Era
 BT1 Geologic times
 NT1 Quaternary Period
 NT1 Tertiary Period

Central
 See Central America
 See District heating
 See Space heating

Central heating plants
 RT District heating
 RT Space heating

Central America
 NT1 El Salvador

Cerro
 See Cerro Prieto Geothermal Field
 See Hot water systems

Cerro Prieto
 See Cerro Prieto Geothermal Field
 See Hot water systems

Cerro Prieto Geothermal Field
 BT1 Geothermal fields
 BT1 Mexico
 BT2 North America
 RT Hot water systems

Cesium
 BT1 Alkali metals
 BT2 Metals

Geopressured Geothermal Bibliography

Chalcedony

BT1 Silica minerals
BT2 Minerals

Chalcopyrite

BT1 Sulfide minerals
BT2 Minerals

Characteristics

See Reservoir properties
See Rock properties
See Well characteristics

Charges

RT Budgets
RT Cost
RT Economics
RT Financing
RT Income
RT Profits

Charging

RT Injection

Charts

See Diagrams

Chemical

See Acidization
See Chemical analysis
methods
See Chemical analysis
See Chemical composition
See Chemical effluents
See Chemical equilibrium
See Chemical explosions
See Chemical explosives
See Chemical properties
See Chemical reactions
See Chemisorption
See Chemistry
See Gas analysis
See Gas chromatography
See Gaseous wastes
See Liquid wastes
See Measuring methods
See Mineral wastes
See Ph adjustment
See Ph value
See Physical properties
See Pollution
See Qualitative chemical
analysis
See Quantitative chemical
analysis
See Rock properties
See Salinity
See Solid wastes
See Surface properties

Chemical analysis

BT1 Analysis
NT1 Qualitative chemical
analysis
NT1 Quantitative chemical
analysis
RT Chemical analysis methods
RT Chemical composition
RT Classification

Chemical analysis methods

BT1 Measuring methods
NT1 Air analysis
NT1 Chromatography
NT1 Gas chromatography
NT1 Gas analysis
NT1 Spectroscopy
RT Chemical analysis
RT Qualitative chemical
analysis
RT Quantitative chemical
analysis

Chemical composition
 BT1 Composition
 RT Abundance
 RT Chemical analysis
 RT Concentration dependence
 RT Ph value
 RT Qualitative chemical analysis
 RT Quantitative chemical analysis
 RT Rock properties
 RT Salinity
 RT Saturation

Chemical effluents
 RT Gaseous wastes
 RT Liquid wastes
 RT Mineral wastes
 RT Pollution
 RT Solid wastes

Chemical equilibrium
 BT1 Equilibrium
 RT Chemical reactions
 RT Saturation

Chemical explosions
 BT1 Explosions

Chemical explosives
 BT1 Explosives

Chemical properties
 NT1 Flammability
 NT1 Ph value
 NT1 Salinity
 NT1 Solubility
 RT Chemical reactions
 RT Chemistry
 RT Physical properties
 RT Surface properties

Chemical reactions
 NT1 Corrosion
 NT1 Decomposition
 NT1 Polymerization
 NT1 Redox reactions
 RT Chemical equilibrium
 RT Chemical properties
 RT Chemistry
 RT Ph dependence
 RT Rock fluid interactions

Chemical treatment
 Use Acidization
 Use Ph adjustment

Chemically
 See Evaporites

Chemically precipitated rocks
 Use Evaporites

Chemisorption
 RT Adsorption
 RT Chromatography
 RT Diffusion
 RT Porosity
 RT Separation processes

Chemistry
 NT1 Geochemistry
 RT Chemical properties
 RT Chemical reactions
 RT Qualitative chemical analysis
 RT Quantitative chemical analysis

Chert
 BT1 Nonclastic rocks
 BT2 Sedimentary rocks

China
 BT1 Asia
 BT2 Continents
 Also see South China Sea

Chlorides
 BT1 Chlorine inorganic compounds
 BT1 Halides
 NT1 Calcium chlorides
 NT1 Magnesium chlorides
 NT1 Sodium chlorides
 Also see Calcium chlorides
 Also see Magnesium chlorides
 Also see Sodium chlorides

Chlorine
 BT1 Halogens
 BT2 Nonmetals
 Also see Chlorine inorganic compounds

Chlorine inorganic compounds
 NT1 Chlorides

Chlorite
 See Chlorite minerals

Chlorite minerals
 BT1 Silicate minerals
 BT2 Minerals

Geopressured Geothermal Bibliography

Chocolate Bayou Geothermal Field

BT1 Geothermal fields
BT1 Texas
BT2 USA
BT3 North America

Chromatography

BT1 Separation processes
BT1 Chemical analysis
methods
BT2 Measuring methods
NT1 Gas chromatography
RT Chemisorption

Chromium

BT1 Transition elements
BT2 Metals

Circulating

See Circulating rate

Circulating rate

BT1 Flow rate
BT2 Rates

Circulation

RT Drilling fluids
RT Wells
Also see Circulating rate
Also see Lost circulation
Also see Permeability
Also see Porosity
Also see Wells

Circulation rate

Use Circulating rate

Cities

Use Urban areas

City

See Louisiana
See Texas

Classification

RT Chemical analysis

Clastic

See Clastic rocks

Clastic rocks

BT1 Sedimentary rocks
BT2 Rocks
NT1 Mudstone
NT1 Sandstone
NT1 Shale
NT1 Siltstone
RT Limestone

Clay

RT Argillaceous rocks
RT Clay mineralogy
RT Clay minerals
RT Sand
Also see Clay mineralogy
Also see Clay minerals

Clay mineralogy

RT Clay
RT Clay minerals

Clay minerals

BT1 Silicate minerals
BT2 Minerals
NT1 Illite
NT1 Kaolin
NT1 Montmorillonite
RT Argillaceous rocks
RT Clay
RT Clay mineralogy
RT Sand

Cleaning

See Air

Climates

RT Arctic regions
RT Atmospheric
precipitations
RT Meteorology
RT Polar regions
RT Seasons
RT Weather
RT Wind

Closed

See Thermodynamic cycles

Closed-cycle systems

RT Thermodynamic cycles

Co-generation

BT1 Power generation
RT District heating

Coal

BT1 Fossil fuels
 BT2 Fuels
 RT Coal deposits
 RT Coal reserves
 RT Vitrinite
 Also see Coal reserves

Coal deposits

RT Coal
 RT Coal reserves
 RT Well logging equipment

Coal reserves

BT1 Reserves
 RT Coal
 RT Coal deposits

Coalinga

BT1 California
 BT2 Gulf Coast

Coast

See California
 See Coast ranges
 See Gulf Coast
 See Oregon
 See Shores

Coast ranges

BT1 Mountains
 RT California
 RT Oregon

Coastal

See Coastal waters
 See Gulf Coast
 See Seas
 See Shores

Coastal regions

RT Coastal waters
 RT Shores

Coastal waters

BT1 Surface waters
 RT Coastal regions
 RT Continental shelf
 RT Estuaries
 RT Offshore sites
 RT Seas
 RT Shores

Coatings

RT Corrosion inhibitors
 RT Corrosion protection

Codes

See Computer codes
 See G codes

Coefficient

See Diffusivity
 See Thermal expansivity

Coefficient of thermal expansion

Use Thermal expansivity

Collars

See Drill collars
 See Well drilling

Collecting

See Collecting tanks

Collecting tanks

BT1 Surface equipment
 BT2 Equipment

Colorado

BT1 USA
 BT2 North America
 RT Rio Grande Rift

Colorado County

BT1 Texas
 BT2 USA
 BT3 North America

Colorado Fairway

BT1 Texas
 BT2 USA
 BT3 North America

Colorimetry

Use Absorption spectroscopy

Combined

See Combined cycle power plants
 See Combined cycle power generation
 See Thermodynamic cycles

Combined cycle power generation

BT1 Power generation

Combined cycle power plants

BT1 Thermal power plants
 BT2 Power plants

Geopressured Geothermal Bibliography

Combined cycles

RT Thermodynamic cycles

Commercial

See Commercial buildings

Commercial buildings

BT1 Buildings

NT1 Office buildings

Commercialization

RT Demonstration programs

RT Market

RT Technology utilization

Commission

See US AEC

Communities

RT Demography

RT Ecosystems

RT Populations

RT Public health

RT Socio-economic factors

Compaction

RT Burial

RT Compression

RT Consolidation

RT Diagenesis

RT Ground subsidence

RT Porosity

RT Reservoir engineering

RT Sandstone

Comparative

See Comparative evaluations

Comparative evaluations

RT Correlation

RT Cost benefit analysis

RT Efficiency

RT Evaluation

RT Feasibility studies

RT Functional models

RT Mathematical models

RT Performance

RT Test facilities

Completion

See Well completion

See Well design

See Well drilling

Completion (wells)

Use Well completion

Compliance

RT Laws

RT Legal aspects

RT Recommendations

RT Regulations

RT Standards

Composition

NT1 Chemical composition

NT1 Mineral composition

Also see Ph value

Also see Rock properties

Also see Salinity

Also see Scale monitoring

Also see Scaling

Also see Scaling control

Compounds

See Aluminum inorganic compounds

See Barium inorganic compounds

See Boron inorganic compounds

See Bromine inorganic compounds

See Calcium inorganic compounds

See Carbon inorganic compounds

See Chlorine inorganic compounds

See Fluorine inorganic compounds

See Hydrogen inorganic compounds

See Inorganic compounds

See Iodine inorganic compounds

See Iron inorganic compounds

See Magnesium inorganic compounds

See Nitrogen inorganic compounds

See Organic compounds

See Oxygen inorganic compounds

See Silver inorganic compounds

See Sodium inorganic compounds

See Strontium inorganic compounds

See Sulfur inorganic compounds

See Uranium inorganic compounds

Compressibility

BT1 Mechanical properties
 RT Fluid properties
 RT Piezometers

Compression

RT Compaction
 RT Consolidation
 RT Rock deformation

Compressors

RT Pumps

Computer

See Computer codes
 See Computers
 See Data analysis
 See Numerical analysis
 See Numerical solution
 See Programming

Computer calculations

RT Computerized simulation
 RT Computer codes
 RT Computers
 RT Data analysis
 RT Numerical analysis
 RT Numerical solution

Computer codes

NT1 G codes
 RT Algorithms
 RT Computer calculations
 RT Computers
 RT Mathematical models
 RT Programming
 RT Simulation

Computer programming

Use Programming

Computer programs

Use Computer codes

Computerized simulation

BT1 Simulation
 RT Computer calculations

Computers

RT Computer calculations
 RT Computer codes
 RT Data processing
 RT Programming

Concentration

See Chemical composition
 See Elevated concentration
 See High concentration
 See Infinite dilution
 See Low concentration
 See Moderate concentration
 See Ph value
 See Solutions
 See Trace amounts

Concentration (<0.01 molal)

Use Low concentration

Concentration (>1.0 molal)

Use High concentration

Concentration (infinite dilution)

Use Infinite dilution

Concentration (0.01-0.10 molal)

Use Moderate concentration

Concentration (0.10-1.0 molal)

Use Elevated concentration

Concentration dependence

RT Chemical composition
 RT Elevated concentration
 RT High concentration
 RT Low concentration
 RT Moderate concentration
 RT Solutions

Concordant

See Concordant intrusions

Concordant intrusions

BT1 Igneous intrusions
 NT1 Sill intrusions

Condensates

See Gases

Condensates

RT Condensation
 RT Gas condensation
 RT Natural gas
 RT Petroleum
 RT Steam

Condensers

NT1 Vapor condensers
 Also see Steam condensers

Geopressured Geothermal Bibliography

Conditioning

See Air
See Cooling
See Cooling systems
See Direct energy utilization
See Thermal insulation
See Water treatment

Conditions

See Personnel
See Safety

Conduction

See Thermal conduction

Conductivity

Also see Heat flow
Also see Thermal conduction
Also see Thermal conductivity
Also see Thermal insulation
Use Electric conductivity

Conferences

Use Meetings

Confined

See Artesian aquifers
See Artesian water

Confined aquifers

Use Artesian aquifers

Confined ground water

Use Artesian water

Congressional

See Hearings

Congressional hearings

Use Hearings

Connate

See Connate water

Connate water

BT1 Interstitial water
BT2 Ground water

Conservation

See Energy conservation
See Energy consumption
See Resource conservation
See Resources

Conservation (energy)

Use Energy conservation

Conservation (resource)

Use Resource conservation

Consolidation

RT Compaction
RT Compression
RT Deformation
RT Density
RT Ground subsidence
RT Soil mechanics
RT Strains

Constant

See Dielectric constant

Constraints

RT Budgets

Construction

NT1 Retrofitting
RT Buildings
RT Installation
RT Planning

Consumption

See Energy consumption
See Exploitation

Consumption rates

RT Energy consumption

Contained

See Contained explosions
See Underground explosions

Contained explosions

BT1 Explosions
RT Underground explosions

Contamination

RT Environmental effects
RT Radioactive wastes
RT Radioactivity

Contemporaneous

See Growth faults

Contemporaneous faults

Use Growth faults

Content

See Chemical analysis
See Enthalpy
See Salinity

Content analysis

Use Chemical analysis

Continental

See Coastal waters
 See Continental crust
 See Continents
 See Marine geology
 See Oceanic crust
 See Plate tectonics
 See Rift valleys
 See Seas

Continental crust

BT1 Earth crust
 BT2 Earth planetary structure
 RT Earth planet
 RT Oceanic crust

Continental drift

RT Continents
 RT Plate tectonics
 RT Rift valleys

Continental shelf

RT Coastal waters
 RT Continents
 RT Marine geology

Continental slopes

RT Continents
 RT Marine geology
 RT Oceanic crust
 RT Seas

Continents

NT1 Africa
 NT1 Asia
 NT1 Australia
 NT1 Europe
 NT1 North America
 NT1 South America
 RT Continental drift
 RT Continental shelf
 RT Continental slopes

Contour

See Contour maps

Contour maps

BT1 Maps
 BT2 Document types

Contracts

RT Agreements
 RT Fabrication

Control

NT1 Geologic control
 NT1 Pollution control
 NT1 Pressure control
 NT1 Remote control
 NT1 Scaling control
 NT1 Shale control
 NT1 Temperature control
 RT Abatement
 RT Monitoring
 RT Optimization
 Also see Air pollution
 Also see Air pollution control
 Also see Corrosion protection
 Also see Gravel packing
 Also see Isopiestic measurement
 Also see Land pollution
 Also see Land pollution control
 Also see Noise pollution
 Also see Noise pollution control
 Also see Pollution control equipment
 Also see Sand production
 Also see Scale monitoring
 Also see Scaling
 Also see Temperature monitoring
 Also see Thermal insulation
 Also see Water pollution
 Also see Water pollution control

Convection

BT1 Heat transfer
 BT2 Energy transfer
 RT Convection cells
 RT Mass transfer
 Also see Earth mantle
 Also see Plate tectonics
 Also see Tectonics

Convection cells

RT Convection
 RT Earth mantle
 RT Plate tectonics
 RT Tectonics

Convective

See Hydrothermal systems

Conventions

Use Agreements

Geopressured Geothermal Bibliography

Conversion

NT1 Energy conversion
Also see Energy transfer
Also see Geothermal energy conversion
Also see Ocean thermal power plants
Also see Ocean thermal energy conversion
Also see Solar energy
Also see Solar energy conversion
Also see Working fluids

Cooling

NT1 District cooling
RT Air conditioning
RT Cooling ponds
RT Cooling systems
RT Cooling towers
RT Heat transfer
Also see Cooling ponds
Also see Cooling systems
Also see Heat exchangers
Also see Lakes
Also see Power plants
Also see Vapor condensers

Cooling ponds

BT1 Water reservoirs
BT2 Surface waters
RT Cooling
RT Cooling systems
RT Lakes

Cooling systems

RT Air conditioning
RT Cooling
RT Cooling ponds
RT Cooling towers

Cooling towers

RT Cooling
RT Cooling systems
RT Heat exchangers
RT Power plants
RT Vapor condensers

Copper

See Chalcopyrite

Copper

BT1 Transition elements
BT2 Metals

Copper pyrites

Use Chalcopyrite

Core

See Coring equipment
See Earth core

Core (earth)

Use Earth core

Core barrel

Use Coring equipment

Cores

Also see Drills
Also see Well drilling
Also see Well logging
Use Drill cores

Coring

See Coring equipment

Coring equipment

BT1 Drilling equipment
BT2 Equipment

Corpus Christi Fairway

BT1 Texas
BT2 USA
BT3 North America

Correlation

RT Comparative evaluations
RT Evaluation
RT Forecasting
RT Mathematical models

Corrosion

BT1 Chemical reactions
 NT1 Crevice corrosion
 NT1 Pitting corrosion
 NT1 Scaling
 NT1 Stress corrosion
 RT Abrasion
 RT Antifoulants
 RT Brines
 RT Corrosion inhibitors
 RT Corrosion monitoring
 RT Corrosion products
 RT Corrosion protection
 RT Corrosion resistant alloys
 RT Corrosion resistance
 RT Dissolved gases
 RT Erosion
 RT Failures
 RT Fouling
 RT Materials testing
 RT Salinity
 RT Solutions
 RT Surface properties
 Also see Corrosion monitoring
 Also see Corrosion protection
 Also see Corrosion resistant alloys
 Also see Corrosive effects
 Also see Stainless steels

Corrosion control

Use Corrosion protection

Corrosion inhibitors

RT Corrosion
 RT Corrosion monitoring
 RT Corrosion protection

Corrosion monitoring

BT1 Monitoring
 RT Corrosion
 RT Corrosion inhibitors
 RT Corrosion products
 RT Corrosion protection
 RT Corrosive effects
 RT Crevice corrosion

Corrosion products

RT Corrosion
 RT Corrosion monitoring

Corrosion protection

RT Coatings
 RT Corrosion
 RT Corrosion inhibitors
 RT Corrosion monitoring
 RT Crevice corrosion
 RT Stainless steels

Corrosion resistance

RT Corrosion
 RT Crevice corrosion
 RT Stainless steels

Corrosive

See Corrosive effects

Corrosive effects

BT1 Effects
 RT Brines
 RT Corrosion monitoring

Coso

See Coso Hot Springs KGRA

Coso Hot Springs KGRA

BT1 KGRAs
 BT1 California
 BT2 USA
 RT Geothermal fields

Cost

NT1 Life-cycle cost
 RT Budgets
 RT Capital
 RT Charges
 RT Cost benefit analysis
 RT Financing
 RT Inflation
 RT Investment
 RT Royalties
 Also see Comparative evaluations
 Also see Economics

Cost benefit analysis

RT Comparative evaluations
 RT Cost
 RT Economics
 RT Life-cycle cost

Costs

Use Cost

Geopressured Geothermal Bibliography

County

See Brazoria County
See Brewster County
See Brooks County
See Cameron County
See Culberson County
See El Paso County
See Galveston County
See Greene County
See Harris County
See Hidalgo County
See Hudspeth County
See Jeff Davis County
See Kenedy County
See Kleberg County
See Matagorda County
See Nueces County
See Parish
See Presidio County
See Rankin County
See Starr County
See Willacy County

Courts

RT Hearings
RT Lawsuits

Cracks

RT Fissures
RT Fracture properties
RT Fractures

Creep

BT1 Mechanical properties
RT Earth movements
RT Rheology
RT Salt tectonics

Cretaceous

See Cretaceous Period

Cretaceous Period

BT1 Mesozoic Era
BT2 Geologic times
RT Franciscan Formation

Crevice

See Crevice corrosion

Crevice corrosion

BT1 Corrosion
BT2 Chemical reactions
RT Corrosion monitoring
RT Corrosion protection
RT Corrosion resistance
RT Geothermal fluids
RT Heat exchangers
RT Stainless steels

Cristobalite

BT1 Silica minerals
BT2 Minerals

Crops

RT Agriculture
RT Cultivation
RT Cultivation techniques
RT Plants

Cross

See Geologic cross sections
See Geologic structures

Cross sections

Use Geologic cross sections

Crude

See Petroleum

Crude oil

Use Petroleum

Crust

See Continental crust
See Earth crust
See Oceanic crust

Crust (earth)

Use Earth crust

Crystal

See Crystallography

Crystal structures

Use Crystallography

Crystallization

RT Amorphous state
RT Crystals
RT Mineralization
RT Precipitation
RT Solidification

Crystallography
 BT1 Nuclear magnetic resonance
 BT2 Measuring methods
 RT Crystals
 RT Minerals

Crystals
 RT Crystallization
 RT Crystallography
 RT Solids

Culberson
 See Culberson County

Culberson County
 BT1 Texas
 BT2 Gulf Coast

Cultivation
 NT1 Cultivation techniques
 RT Crops
 Also see Agriculture

Cultivation techniques
 BT1 Cultivation
 RT Agriculture
 RT Crops
 RT Irrigation

Cultural resources

Culture
 See Aquaculture

Current
 See Telluric surveys

Curves
 Use Diagrams

Cuttings
 RT Boreholes
 RT Drilling fluids
 RT Drill cores
 RT Well logging
 RT Wells
 See Cuttings (rock)
 See Drill cuttings
 See Rock cuttings

Cuttings analysis
 RT Cuttings

Cycle
 See Binary cycle power generation
 See Brayton cycle
 See Carnot cycle
 See Combined cycle power plants
 See Combined cycle power generation
 See Power generation
 See Rankine cycle
 See Steam turbine power generation
 See Thermodynamic cycles

Cycles
 Also see Binary cycle power systems
 Also see Gas turbine power generation
 Also see Thermodynamic cycles
 Use Binary cycles

Czechoslovakia
 BT1 Europe
 BT2 Continents

Damage
 See Disposal formations
 See Permeability
 See Plugging
 See Well completion

Geopressured Geothermal Bibliography

Data

BT1 Information
RT Data compilation
RT Data analysis
RT Data processing
RT Experimental results
RT Graphs
RT Information needs
RT Tables
Also see Bottom hole pressure
Also see Bottom hole temperature
Also see Computers
Also see Data acquisition systems
Also see Data analysis
Also see Data processing
Also see Detection
Also see Downhole sampling
Also see Reservoir properties
Also see Well characteristics
Also see Well completion
Also see Well data
Also see Well head pressure
Also see Well head temperature
Also see Wells

Data acquisition

RT Detection

Data acquisition systems

RT Recording systems

Data analysis

BT1 Analysis
RT Computer calculations
RT Data
RT Data processing

Data compilation

RT Data

Data processing

BT1 Processing
RT Computers
RT Data
RT Data analysis

Datum

See Reservoir pressure

Datum pressure

Use Reservoir pressure

Davis

See Jeff Davis County
See Jefferson Davis Parish

Decline

See Pressure decline

Decomposition

BT1 Chemical reactions
NT1 Hydrolysis

Deep

See Deep drilling
See Deep wells
See Dewatering

Deep drilling

BT1 Well drilling
BT2 Drilling

Deep wells

BT1 Wells
RT Dewatering

Deformation

BT1 Thermoelasticity
NT1 Rock deformation
RT Consolidation
RT Elongation
RT Fractures
RT Mechanical properties
RT Plasticity
RT Rheology
RT Strains

Deg

See Elevated temperature
See High temperature
See Low temperature
See Moderate temperature
See Standard temperature

Dehydration

RT Dewatering
RT Evaporation

Delaware

See Delaware basin
See Delaware basin
See Texas

Delaware Basin

BT1 Geologic provinces
BT1 USA
RT Texas

Deltas
 RT Alluvium
 RT Rivers
 RT Sediment deposits
 RT Sedimentation
 RT Sediments

Demand
 See Energy balance
 See Energy consumption
 See Energy demand
 See Energy sources
 See Energy storage

Demineralization
 BT1 Separation processes
 NT1 Desalination
 RT Direct energy utilization
 RT Electrodialysis
 RT Fouling

Democratic
 See German Democratic Republic

Demography
 BT1 Sociology
 RT Communities
 RT Human populations

Demonstration
 See Commercialization
 See Industrial plants
 See Pilot plants
 See Planning
 See Research programs

Demonstration plants
 RT Industrial plants
 RT Pilot plants

Demonstration programs
 RT Commercialization
 RT Planning
 RT Research programs

Density
 BT1 Physical properties
 RT Consolidation
 RT Density gradients
 RT Fluid properties
 RT Mud weight
 RT Volume

Density gradients
 RT Density

Department
 See US DOE

Department of energy
 Use US DOE

Dependence
 See Chemical composition
 See Chemical reactions
 See Elevated concentration
 See Elevated pressure
 See Elevated temperature
 See High concentration
 See High pressure
 See High temperature
 See Isopiestic measurement
 See Low concentration
 See Low pressure
 See Low temperature
 See Moderate concentration
 See Moderate pressure
 See Moderate temperature
 See Ph adjustment
 See Ph value
 See Pressure decline
 See Solutions
 See Standard pressure
 See Standard temperature
 See Temperature distribution
 See Temperature effects

Depletion
 See Availability
 See Energy consumption
 See Geothermal resources
 See Overdraft
 See Resource depletion

Depletion (ground water)
 Use Overdraft

Depletion (resource)
 Use Resource depletion

Deposition
 RT Accumulation
 RT Accumulation rate
 RT Adsorption
 RT Depositional environment
 RT Fouling
 RT Geologic deposits
 RT Growth faults
 RT Precipitation
 RT Sedimentary petrology
 RT Sedimentation

Geopressured Geothermal Bibliography

Deposition rate

Use Accumulation rate

Depositional

See Burial

See Depositional environment

See Growth faults

Depositional environment

BT1 Environment

RT Deposition

RT Paleoecology

RT Sedimentation

RT Sediments

Depositional faults

Use Growth faults

Deposits

See Alluvial deposits

See Alluvium

See Anticlines

See Coal

See Coal reserves

See Geologic deposits

See Geophysical surveys

See Natural gas

See Natural gas deposits

See Natural gas industry

See Petroleum

See Petroleum deposits

See Petroleum industry

See Radioactive wastes

See Resources

See Salt deposits

See Salt domes

See Sediment deposits

See Stratigraphic traps

See Structural traps

See Traps

Deposits (geological)

Use Geologic deposits

Depth

BT1 Dimensions

RT Distance

Deregulation

RT Economics

RT Natural gas

RT Petroleum

RT Regulations

Desalination

BT1 Demineralization

BT2 Separation processes

RT By-products

RT Direct energy utilization

RT Electrodialysis

RT Evaporators

RT Salinity

RT Salts

RT Sea water

RT Water treatment

Descaling

RT Cavitation

RT Scale monitoring

Description

See Well information systems

See Well logging

Design

NT1 Casing programs

NT1 Well design

RT Feasibility studies

RT Planning

RT Specifications

Desulfurization

RT Air pollution abatement

RT Recovery processes

Detection

RT Data acquisition

RT Exploration

RT Monitoring

Also see Seismic detection

Also see Seismic s waves

Determination

See Geochronology

Development

RT Exploitation

RT Leasing

Also see US ERDA

Devonian

See Devonian Period

Devonian Period

BT1 Paleozoic Era

BT2 Geologic times

Dewatering
 RT Deep wells
 RT Dehydration
 RT Drawdown
 RT Evaporation
 RT Ground water
 RT Pumping
 RT Wells

DeWitt County
 BT1 Texas
 BT2 USA
 BT3 North America

DeWitt Fairway
 BT1 Texas
 BT2 USA
 BT3 North America

Diabase
 BT1 Intrusive rocks
 BT2 Igneous rocks

Diagenesis
 RT Burial
 RT Catagenesis
 RT Compaction
 RT Lithification

Diagrams
 BT1 Document types
 RT Maps
 RT Photographs

Diameter
 NT1 Hole diameter

Diapirism
 RT Salt domes

Diapirs
 BT1 Anticlines
 BT2 Folds
 NT1 Shale diapirs
 RT Salt domes

Diastrophism
 BT1 Geologic processes
 RT Faults
 RT Tectonics

Dickite
 BT1 Kaolin
 BT2 Clay minerals

Dielectric
 See Dielectric constant

Dielectric constant
 BT1 Electrical properties
 BT2 Physical properties

Differential
 See Differential equations
 See Differential pressure
 See Mathematics

Differential equations
 BT1 Equations
 NT1 Lagrange equations
 RT Mathematics

Differential pressure
 RT Pressure gradients

Diffusion
 RT Chemisorption
 RT Diffusivity
 RT Electrodialysis
 RT Mass transfer
 RT Osmosis
 Also see Heat transfer
 Also see Thermal diffusivity

Diffusion coefficient
 Use Diffusivity

Diffusivity
 BT1 Hydrologic properties
 RT Diffusion
 Also see Thermal diffusivity
 Also see Thermal insulation

Dike
 See Dike intrusions

Dike intrusions
 BT1 Discordant intrusions
 BT2 Igneous intrusions

Dikes
 Use Dike intrusions

Dilute
 See Low concentration

Dilute solutions
 Use Low concentration

Dilution
 RT Infinite dilution
 Also see Low concentration
 Also see Solutions
 Also see Trace amounts

Geopressured Geothermal Bibliography

Dimensions	Discharge rate
NT1 Depth	Use Flow rate
NT1 Thickness	
RT Distance	
Dioxide	Discordant
See Carbon dioxide	See Batholiths
See Dissolved gases	See Discordant intrusions
Dip	Discordant intrusions
See Dipmeter logging	BT1 Igneous intrusions
Dip logging	NT1 Dike intrusions
Use Dipmeter logging	RT Batholiths
Dipmeter	RT Stock intrusions
See Dipmeter logging	
Dipmeter logging	Dispersions
BT1 Well logging	RT Solids
Direct	Displacements
See Direct energy utilization	RT Faults
Direct energy utilization	RT Strains
RT Agriculture	Disposal
RT Air conditioning	See Disposal formations
RT Demineralization	See Disposal wells
RT Desalination	See Gaseous wastes
RT District heating	See Gravel packing
RT Energy storage	See Injection wells
RT Geothermal refrigeration	See Liquid wastes
RT Geothermal space heating	See Radioactive wastes
RT Greenhouses	See Salt deposits
RT Industrial heating	See Solid wastes
RT Process heat	See Stack disposal
RT Space heating	See Surface disposal
RT Uses	See Surface equipment
	See Underground disposal
	See Waste disposal
	See Waste water
	See Wastes
	See Water pollution
	See Well design
Directional	Disposal formations
See Directional drilling	RT Disposal wells
Directional drilling	RT Formation damage
BT1 Drilling	RT Waste disposal
RT Enhanced recovery	RT Well design
RT Geothermal wells	
RT Well drilling	
Directory	Disposal wells
BT1 Document types	BT1 Injection wells
Discharge	BT2 Wells
See Flow rate	RT Disposal formations
See Heat flow	RT Waste disposal
See Waste heat	RT Well design

Dissolved

See Dissolved gases
 See Dissolved salts
 See Dissolved solids
 See Water analysis

Dissolved gases

BT1 Gases
 BT2 Fluids
 RT Ammonia
 RT Carbon dioxide
 RT Corrosion
 RT Dissolved solids
 RT Hydrogen sulfides
 RT Methane
 RT Oxygen
 RT Solubility
 RT Solutions
 RT Water analysis

Dissolved salts

BT1 Salts

Dissolved solids

BT1 Solids
 RT Dissolved gases
 RT Salinity
 RT Salts
 RT Solid wastes
 RT Solubility
 RT Solutions
 RT Suspended solids
 RT Water analysis

Distance

RT Depth
 RT Dimensions
 RT Thickness

Distribution

NT1 Geographical distribution
 NT1 Temperature distribution
 RT Abundance
 RT Allocations
 RT Anisotropy
 RT Isotropy
 Also see Geography
 Also see Temperature surveys

District

See Direct energy utilization
 See District cooling
 See District heating
 See Hot water heating

District cooling

BT1 Cooling

District heating

BT1 Heating
 RT Central heating plants
 RT Co-generation
 RT Direct energy utilization
 RT Hot water heating
 RT Space heating

Document

See Document types

Document types

NT1 Abstracts
 NT1 Bibliographies
 NT1 Case histories
 NT1 Diagrams
 NT1 Directory
 NT1 Environmental impact statements
 NT1 Field studies
 NT1 Indexes
 NT1 Lectures
 NT1 Manuals
 NT1 Maps
 NT1 Patents
 NT1 Proceedings
 NT1 Reviews
 NT1 Textbooks
 NT1 Theoretical treatments
 RT Experimental results
 RT Information
 RT Meetings
 RT Tables

Documentation

RT Information systems

Dolomite

BT1 Carbonate minerals
 BT2 Minerals
 RT Calcium carbonates
 RT Carbonate rocks
 RT Dolomite rocks
 RT Magnesium carbonates
 RT Marble
 Also see Dolomite rocks

Dolomite mineral

Use Dolomite

Dolomite rocks

BT1 Nonclastic rocks
 BT2 Sedimentary rocks
 RT Dolomite

Geopressured Geothermal Bibliography

Domes

See Salt domes
See Salt tectonics

Domestic

See Agriculture
See Domestic animals

Domestic animals

BT1 Animals
RT Agriculture

Dominated

See Hot water systems
See Vapor dominated systems

Downhole

See Bottom hole pressure
See Bottom hole temperature
See Downhole pumps
See Downhole sampling
See Well design

Downhole pressure

Use Bottom hole pressure

Downhole pumps

BT1 Pumps
RT Well design

Downhole sampling

BT1 Sampling
RT Well data

Downhole temperature

Use Bottom hole temperature

Drainage

See Hydrology
See Rivers

Drainage systems

RT Hydrology
RT Rivers

Drawdown

RT Dewatering
RT Ground water
RT Ground water recharge
RT Pressure decline
RT Water table
RT Well spacing

Drawings

Use Diagrams

Drift

See Continents
See Plate tectonics
See Rift valleys

Drill

See Boreholes
See Drill bits
See Drill collars
See Drill cores
See Drill pipes
See Drill stem testing
See Drills
See Well drilling
See Well logging

Drill bits

BT1 Drilling equipment
BT2 Equipment
RT Drill pipes
RT Drills
RT Well drilling

Drill collars

BT1 Drilling equipment
BT2 Equipment
RT Well drilling

Drill cores

RT Drills
RT Well drilling
RT Well logging

Drill holes

Use Boreholes

Drill pipes

BT1 Pipes
BT1 Drilling equipment
BT2 Equipment
RT Drill bits
RT Drilling rigs
RT Drills

Drill stem testing

BT1 Testing
BT1 Well testing
RT Formation testing

Drillability

See Rock failures

Drilling

NT1 Directional drilling
 NT1 Rock drilling
 NT1 Well drilling
 RT Drilling fluids
 RT Drilling rigs
 RT Formation testing
 RT MWD systems
 RT Well cementing
 RT Wells
 Also see Blowout preventers
 Also see Circulating rate
 Also see Circulation
 Also see Deep drilling
 Also see Drill pipes
 Also see Drilling equipment
 Also see Drilling fluids
 Also see Drilling rate
 Also see Drills
 Also see Geothermal drilling
 Also see Natural gas
 Also see Oil drilling
 Also see Petroleum
 Also see Rotary drilling
 Also see Salt water
 Also see Well design

Drilling equipment

BT1 Equipment
 NT1 Coring equipment
 NT1 Drill bits
 NT1 Drill collars
 NT1 Drill pipes
 NT1 Drills
 RT Blowout preventers
 RT Drilling rigs
 RT Well design

Drilling fluid flow rate

Use Circulating rate

Drilling fluids

RT Circulation
 RT Drilling
 RT Drills
 RT Lubricants
 RT Mud logging
 RT Mud weight
 RT Salt water
 RT Well drilling

Drilling muds

Use Drilling fluids

Drilling rate

BT1 Rates

Drilling rigs

RT Drill pipes
 RT Drilling
 RT Drilling equipment
 RT Drills
 RT Natural gas
 RT Petroleum
 RT Well drilling

Drills

BT1 Drilling equipment
 BT2 Equipment
 RT Drill bits
 RT Drill cores
 RT Drill pipes
 RT Drilling fluids
 RT Drilling rigs
 RT Rock drilling
 RT Well drilling

Drinking

See Drinking water

Drinking water

BT1 Water
 RT Fresh water
 RT Water quality

Drive mechanism**Drop**

See Flow rate
 See Fluid flow
 See Isopiestic measurement
 See Pressure drop
 See Pressure release

Dry

See Hot dry rock systems
 See Vapor dominated systems

Dry rock systems

See Hot dry rock systems

Dry rocks

See Hot dry rock systems

Dry steam systems

Use Vapor dominated systems

Duval Fairway

BT1 Texas
 BT2 USA
 BT3 North America

Geopressured Geothermal Bibliography

DOE

See US DOE
See US ERDA

Earth

See Air
See Air pollution
See Alkaline earth metals
See Atmospheric precipitations
See Continental crust
See Earth atmosphere
See Earth core
See Earth crust
See Earth mantle
See Earth movements
See Earth penetrators
See Earth planet
See Earth planetary structure
See Environment
See Geography
See Geology
See Geophysics
See Ground motion
See Meteorology
See Oceanography
See Seismic waves
See Seismology
See Telluric surveys
See Topography

Earth atmosphere

NT1 Stratosphere
NT1 Troposphere
RT Air
RT Air pollution
RT Atmospheric precipitations
RT Earth planet
RT Environment
RT Meteorology

Earth core

BT1 Earth planetary structure
RT Earth planet

Earth crust

BT1 Earth planetary structure
NT1 Continental crust
NT1 Oceanic crust
RT Earth mantle
RT Earth planet
RT Isostasy
RT Lithosphere
RT Plate tectonics
RT Sea bed
RT Sea floor spreading

Earth current surveys

Use Telluric surveys

Earth interior

Use Earth core
Use Earth mantle

Earth mantle

BT1 Earth planetary structure
RT Convection cells
RT Earth crust
RT Earth planet
RT Overburden

Earth movements

NT1 Earthquakes
NT1 Ground subsidence
RT Creep
RT Earth planet
RT Geology
RT Ground motion
RT Seismic waves
RT Seismology

Earth penetrators

BT1 Penetrators
RT Subterrene penetrators

Earth planet

RT Continental crust
RT Earth atmosphere
RT Earth core
RT Earth crust
RT Earth mantle
RT Earth movements
RT Earth planetary structure
RT Geography
RT Geophysics
RT Lithosphere
RT Oceanography
RT Topography

Earth planetary structure

NT1 Earth core
NT1 Earth crust
NT1 Earth mantle
RT Earth planet
RT Lithosphere

Earth structure

Use Earth planetary structure

Earthquakes

BT1 Seismic events
BT1 Earth movements
NT1 Microearthquakes
RT Seismic S waves
RT Seismic waves
RT Seismology
RT Shock waves

Earths

See Rare earths

East

See East Mesa KGRA
See German Democratic Republic
See Middle East

East Germany

Use German Democratic Republic

East Mesa

See East Mesa KGRA

East Mesa Geothermal Field

Use East Mesa KGRA

East Mesa KGRA

BT1 KGRAS
BT1 Imperial Valley
BT2 California
RT Geothermal fields

Ecology

BT1 Biology
NT1 Baseline ecology
RT Ecosystems
RT Environment
RT Paleoecology
RT Regional analysis

Economic

See Allocations
See Economic geology
See Economic policy
See Economics
See Energy policy
See Forecasting
See Government policies
See Inflation
See Mineral production
See Socio-economic factors

Economic analysis

BT1 Economics
RT Regional analysis

Economic geology

BT1 Geology
RT Economics
RT Mineral production

Economic impact

RT Economics
RT Inflation
RT Socio-economic factors

Economic policy

RT Allocations
RT Economics
RT Energy policy
RT Forecasting
RT Government policies

Geopressured Geothermal Bibliography

Economics

NT1 Economic analysis
RT Availability
RT Budgets
RT By-products
RT Capital
RT Charges
RT Cost benefit analysis
RT Deregulation
RT Economic geology
RT Economic impact
RT Economic policy
RT Energy policy
RT Feasibility studies
RT Financial incentives
RT Financing
RT Income
RT Inflation
RT Investment
RT Life-cycle cost
RT Market
RT Profits
RT Regional analysis
RT Socio-economic factors
RT Subsidies
RT Taxes
RT Trade

Ecosystems

NT1 Aquatic ecosystems
RT Agriculture
RT Biology
RT Biosphere
RT Communities
RT Ecology
RT Environment
RT Populations
Also see Aquatic organisms
Also see Fishes

Edna Delcambre No. 1 Well

BT1 Louisiana
BT2 USA
BT3 North America

Education

RT Manuals

Effects

NT1 Biological effects
NT1 Corrosive effects
NT1 Environmental effects
NT1 Heterogenous effects
NT1 Temperature effects
Also see Air pollution
Also see Biology
Also see Environment
Also see Environmental policy
Also see Heat
Also see Seismic effects
Also see Seismic events
Also see Thermal pollution
Also see Water pollution

Efficiency

NT1 Thermal efficiency
RT Comparative evaluations
RT Feasibility studies
RT Net energy
RT Performance
RT Performance testing
RT Productivity
Also see Thermodynamic cycles

Effluents

See Chemical effluents
See Gaseous wastes
See Liquid wastes
See Mineral wastes
See Pollution
See Solid wastes
See Temperature effects
See Thermal effluents
See Thermal pollution
See Waste heat

Effluents (chemical)

Use Chemical effluents

Effluents (gaseous)

Use Gaseous wastes

Effluents (liquid)

Use Liquid wastes

Effluents (thermal)

Use Thermal effluents

Ejectors
 See Air
 See Gas ejectors
 See Gaseous wastes
 See Pumps
 See Steam

EI Paso County
 BT1 Texas
 BT2 Gulf Coast

EI Salvador
 BT1 Central America

Elastic
 See Elasticity

Elastic properties
 Use Elasticity

Elasticity
 BT1 Tensile properties
 BT2 Mechanical properties
 NT1 Thermoelasticity
 RT Brittleness
 RT Strains

Elastomers
 BT1 Polymers

Electric
 See Power generation

Electric generators
 RT Power generation

Electric
 See Electric conductivity
 See Electric heating
 See Electric potential
 See Electric power
 See Electric power industry
 See Power generation
 See Power plants
 See Public utilities

Electric conductivity
 BT1 Electrical properties
 BT2 Physical properties

Electric heating
 BT1 Heating
 RT Space heating

Electric potential

Electric power
 BT1 Energy
 BT1 Power
 RT Electric power industry
 RT Power generation
 RT Power plants
 RT Power potential
 RT Power transmission
 RT Public utilities

Electric power generation
 Use Power generation

Electric power industry
 BT1 Industry
 RT Electric power
 RT Power plants

Electric power plants
 Use Power plants

Electric resistivity
 Use Electric conductivity

Electric utilities
 Use Public utilities

Electrical
 See Electric conductivity
 See Electrical equipment
 See Electrical logging
 See Electrical properties
 See Electrical surveys
 See Resistivity logging

Electrical conductivity
 Use Electric conductivity

Electrical equipment
 BT1 Equipment

Electrical exploration
 BT1 Geophysical exploration
 BT2 Exploration
 RT Electrical surveys
 RT Well logging

Electrical logging
 BT1 Well logging
 NT1 Induction logging
 NT1 Resistivity logging
 NT1 Sp logging
 RT Electrical surveys

Geopressured Geothermal Bibliography

Electrical properties

BT1 Physical properties
NT1 Dielectric constant
NT1 Electric conductivity

Electrical resistivity

Use Electric conductivity

Electrical surveys

BT1 Geophysical surveys
BT2 Exploration methods
NT1 Electromagnetic surveys
NT1 Magnetotelluric surveys
NT1 Resistivity surveys
NT1 Self potential surveys
NT1 Telluric surveys
RT Electrical logging
RT Electrical exploration
RT Resistivity logging

Electrodialysis

BT1 Separation processes
RT Demineralization
RT Desalination
RT Diffusion
RT Mass transfer
RT Permeability
RT Semipermeable membranes

Electrolysis

RT Anions
RT Cations
RT Ions

Electromagnetic

See Electromagnetic
radiation
See Electromagnetic surveys

Electromagnetic radiation

NT1 Gamma radiation

Electromagnetic surveys

BT1 Electrical surveys
BT2 Geophysical surveys
NT1 Magnetotelluric surveys

Elements

NT1 Metals
NT1 Nonmetals
NT1 Semimetals
NT1 Transuranium elements
Also see Trace amounts
Also see Transition elements

Elevated

See Elevated concentration
See Elevated pressure
See Elevated temperature

Elevated concentration

RT Concentration dependence

Elevated pressure

RT Pressure dependence

Elevated temperature

RT Temperature dependence

Elongation

RT Deformation
RT Thermal expansion

Embayment

See Rio Grande Embayment

Emission

See Emission spectroscopy

Emission spectroscopy

BT1 Measuring methods

Empirical

See Empirical equations

Empirical equations

BT1 Equations
RT Mathematical models
RT Numerical solutions

Employment

Energy

NT1 Electric power
 NT1 Geothermal energy
 NT1 Heat
 NT1 Kinetic energy
 NT1 Nuclear energy
 NT1 Potential energy
 NT1 Solar energy
 NT1 Stored energy
 NT1 Wind energy
 RT Energy sources
 RT Thermodynamics
 Also see Allocations
 Also see Availability
 Also see Direct energy utilization
 Also see Economics
 Also see Energy balance
 Also see Energy conservation
 Also see Energy consumption
 Also see Energy conversion
 Also see Energy demand
 Also see Energy policy
 Also see Energy reserves
 Also see Energy resources
 Also see Energy sources
 Also see Energy storage
 Also see Energy transfer
 Also see Energy yield
 Also see Exploitation
 Also see Geothermal energy conversion
 Also see Heat storage
 Also see KGRAs
 Also see Net energy
 Also see Nuclear power plants
 Also see Ocean thermal power plants
 Also see Ocean thermal energy conversion
 Also see Power potential
 Also see Productivity
 Also see Reserves
 Also see Resources
 Also see Solar energy conversion
 Also see Solar power plants
 Also see US AEC
 Also see US DOE
 Also see US ERDA
 Also see Wind power plants
 Also see Working fluids

Energy accounting

BT1 Energy costs
 RT Net energy

Energy balance

RT Energy demand
 RT Energy supplies
 RT Energy transfer
 RT Energy yield
 RT Heat balance

Energy conservation

RT Energy consumption
 RT Resource conservation

Energy consumption

RT Consumption rates
 RT Energy conservation
 RT Energy demand
 RT Energy supplies
 RT Energy yield
 RT Exploitation
 RT Net energy
 RT Resource depletion

Energy conversion

BT1 Conversion
 NT1 Geothermal energy conversion
 NT1 Solar energy conversion
 RT Energy transfer
 RT Working fluids

Energy demand

RT Energy balance
 RT Energy consumption
 RT Energy sources
 RT Energy storage
 RT Energy supplies
 RT Energy yield

Energy policy

BT1 Government policies
 RT Allocations
 RT Economic policy
 RT Economics

Energy potential

Use Power potential

Energy reserves

BT1 Reserves
 RT Availability

Energy resources

Geopressured Geothermal Bibliography

Energy source development

RT Energy sources
RT Resource assessment
RT Resource development
RT Resource potential
RT Risk assessment

Energy sources

NT1 Fossil fuels
NT1 Fuel gas
NT1 Heat sources
NT1 Tidal power
RT Availability
RT Energy
RT Energy demand
RT Energy supplies
RT Energy yield

Energy storage

BT1 Storage
NT1 Heat storage
RT Direct energy utilization
RT Energy demand
RT Energy supplies
RT Energy yield
RT Stored energy

Energy supplies

RT Energy balance
RT Energy consumption
RT Energy demand
RT Energy sources
RT Energy storage
RT Energy yield
RT Reserves
RT Resources

Energy transfer

NT1 Heat transfer
RT Energy balance
RT Energy conversion
RT Energy yield
RT Mass transfer

Energy yield

RT Energy balance
RT Energy consumption
RT Energy demand
RT Energy sources
RT Energy storage
RT Energy supplies
RT Energy transfer
RT Net energy
RT Productivity

Energy Recovery

RT Heat
RT Kinetic energy
RT Materials recovery
RT Potential energy
RT Thermodynamics

Energy Research and

Development
Administration
Use US ERDA

Enforcement

RT Laws
RT Legal aspects
RT Regulations

Engineering

NT1 Engineering geology
NT1 Reservoir engineering
RT Engineering properties
Also see Compaction
Also see Exploitation
Also see Geopressured
reservoirs
Also see Marine geology
Also see Reservoir rocks
Also see Safety

Engineering geology

BT1 Geology
BT1 Engineering
RT Exploitation
RT Marine geology
RT Mineral resources
RT Petroleum geology

Engineering properties

RT Engineering

Enhanced

See Directional drilling

Enhanced recovery

RT Directional drilling

Enthalpy

BT1 Thermodynamic properties
BT2 Physical properties
NT1 Reaction heat

Environment

NT1 Depositional environment
 RT Accidents
 RT Aquatic ecosystems
 RT Biosphere
 RT Earth atmosphere
 RT Ecology
 RT Ecosystems
 RT Environmental effects
 RT Environmental geology
 RT Environmental policy
 RT Environmental impact statements
 RT Hydrosphere
 RT Paleoecology
 RT Pollution
 RT Populations
 RT Regional analysis
 RT Site selection
 RT Surface waters

Environmental

See Air pollution
 See Environment
 See Environmental effects
 See Environmental geology
 See Environmental policy
 See Environmental impact statements
 See Thermal pollution
 See US EPA
 See Water pollution

Environmental effects

BT1 Effects
 RT Abatement
 RT Air pollution
 RT Biological effects
 RT Contamination
 RT Environmental impacts
 RT Environment
 RT Environmental policy
 RT Fault activation
 RT Hydrogen sulfides
 RT Thermal pollution
 RT Water pollution

Environmental geology

BT1 Geology
 RT Environment

Environmental impact**statements**

BT1 Document types
 RT Environment
 RT Environmental effects

Environmental impacts

RT Environmental policy

Environmental policy

BT1 Government policies
 RT Environment
 RT Environmental effects

Environmental Protection Agency

Use US EPA

Eocene

See Eocene Epoch

Eocene Epoch

BT1 Tertiary Period
 BT2 Cenozoic Era

Epa

Use US EPA

Epidotes

BT1 Silicate minerals
 BT2 Minerals

Epoch

See Eocene Epoch
 See Miocene Epoch
 See Oligocene Epoch
 See Paleocene Epoch
 See Pleistocene Epoch
 See Pliocene Epoch
 See Recent Epoch

Equations

NT1 Differential equations
 NT1 Empirical equations
 RT Mathematical models
 RT Mathematics
 Also see Lagrange equations

Equilibrium

NT1 Chemical equilibrium
 NT1 Thermal equilibrium

Geopressured Geothermal Bibliography

Equipment

NT1 Drilling equipment
NT1 Electrical equipment
NT1 Laboratory equipment
NT1 Pollution control equipment
NT1 Surface equipment
NT1 Well logging equipment
RT Measuring instruments
Also see Blowout preventers
Also see Coring equipment
Also see Pollution control
Also see Well design

Era

See Cenozoic Era
See Mesozoic Era
See Paleozoic Era

Eras

See Precambrian Eras

Erosion

RT Abrasion
RT Cavitation
RT Corrosion

Errors

RT Accidents

Estimation

See Geochronology

Estuaries

BT1 Surface waters
RT Coastal waters
RT Fresh water
RT Offshore sites
RT Rivers
RT Salinity
RT Sea water
RT Seas

Ethane

BT1 Alkanes
BT2 Hydrocarbons

Eugene

See Eugene Island Block 18 Field

Eugene Island Block 18 Field

BT1 Louisiana
BT2 Gulf Coast

Europe

BT1 Continents
NT1 Czechoslovakia
NT1 German Democratic Republic
NT1 German Federal Republic
NT1 Hungary
NT1 Iceland
NT1 Italy
NT1 Volga river
RT Urals
RT USSR

Europium

BT1 Rare earths
BT2 Metals

Evaluation

RT Comparative evaluations
RT Correlation
RT Forecasting
RT Profitability

Evaluations

See Comparative evaluations

Evaporation

BT1 Phase transformations
NT1 Flashing
RT Boiling
RT Dehydration
RT Dewatering
RT Evaporators
RT Vapors
RT Volatility

Evaporators

RT Desalination
RT Evaporation
RT Heat exchangers

Evaporites

BT1 Nonclastic rocks
BT2 Sedimentary rocks
RT Precipitation

Evaporitic

See Evaporites

Evaporitic rocks

Use Evaporites

Events

See Seismic events

Evolution

Exchange

See Ion exchange

ExchangersSee Crevice corrosion
See Heat exchangers
See Steam condensers**Expansibility**

Use Thermal expansivity

ExpansionNT1 Thermal expansion
Also see Elongation
Also see Thermal expansivity**Expansivity**Also see Thermal expansion
Use Thermal expansivity**Expenses**

Use Cost

ExperimentalSee Data
See Document types
See Experimental results
See Field studies
See Graphs
See Measuring methods
See Tables
See Theoretical treatments**Experimental results**RT Data
RT Document types
RT Field studies
RT Graphs
RT Laboratory studies
RT Tables
RT Theoretical treatments**Experimental studies**

Use Experimental results

Experimental techniques

Use Measuring methods

ExploitationRT Development
RT Energy consumption
RT Engineering geology
RT Heat extraction
RT Leasing
RT Natural gas industry
RT Petroleum industry
RT Reserves
RT USes**Exploration**NT1 Geophysical exploration
NT1 Geopressure exploration
NT1 Geothermal exploration
NT1 Mineral exploration
NT1 Petroleum geology
NT1 Petroleum exploration
NT1 Resource potential
RT Detection
RT Exploration methods
RT Exploratory wells
Also see Exploration methods
Also see Marine surveys
Also see Petroleum
Also see Petroleum industry
Also see Resistivity surveys
Also see Telluric surveys
Also see Thermal exploration
methods**Exploration methods**NT1 Aerial surveys
NT1 Geochemical surveys
NT1 Geological surveys
NT1 Geophysical surveys
RT Exploration
RT Field studies
RT Subsurface mapping**Exploratory**

See Exploratory wells

Exploratory wellsBT1 Wells
RT Exploration

Geopressured Geothermal Bibliography

Explosions

NT1 Chemical explosions
NT1 Contained explosions
NT1 Nuclear explosions
NT1 Underground explosions
RT Explosive stimulation
RT Explosives
RT Hazards
RT Shock waves
Also see Seismic events
Also see Seismic s waves

Explosive

See Explosive stimulation

Explosive stimulation

BT1 Well stimulation
BT2 Reservoir engineering
RT Explosions

Explosives

NT1 Chemical explosives
NT1 Nuclear explosives
RT Explosions

Extraction

Also see Exploitation
Also see Heating
Use Heat extraction

Extrusive

See Extrusive rocks

Extrusive rocks

BT1 Igneous rocks
BT2 Rocks
NT1 Andesite
NT1 Basalt
NT1 Pyroclastic rocks
NT1 Rhyolite

ERDA

Use US ERDA

Fabrication

RT Contracts

Facies

RT Facies maps
RT Sand shale ratio

Facies maps

BT1 Stratigraphic maps
BT2 Maps
NT1 Net sand maps
NT1 Sand percent maps
RT Calstic ratio
RT Calstic ratio maps
RT Facies
RT Sand trend maps

Facilities

See Aquifer tests
See Comparative evaluations
See Field studies
See Public lands

Factors

See Economics
See Socio-economic factors

Failures

NT1 Rock failures
RT Accidents
RT Corrosion
RT Fracture properties
RT Hazards
RT Reliability
RT Safety
RT Systems analysis

Fairfax Foster Sutter No. 2

Well
BT1 Louisiana
BT2 USA
BT3 North America

Fairway

See Fairway analysis

Fairway analysis

Falls

See Klamath Falls KGRA

Farm

See Domestic animals
See Farm buildings

Farm animals

Use Domestic animals

Farm buildings

BT1 Buildings
RT Animal shelters

Fatigue

BT1 Mechanical properties

Fault

See Environmental effects
 See Fault blocks
 See Fault systems
 See Fault zones
 See Faults
 See Rift valleys
 See San Andreas Fault
 See Waste disposal

Fault activation

RT Environmental effects
 RT Fault systems
 RT Faults
 RT Waste disposal

Fault blocks

BT1 Geologic structures
 RT Fault systems
 RT Faults

Fault seals**Fault systems**

BT1 Geologic structures
 RT Fault activation
 RT Fault blocks
 RT Faults
 RT Rift valleys

Fault zones

BT1 Geologic structures
 RT Faults
 RT Rift valleys

Faulting

BT1 Rock deformation
 BT2 Deformation
 RT Faults

Faults

BT1 Geologic structures
 NT1 Active faults
 NT1 Growth faults
 NT1 Lateral faults
 NT1 Normal faults
 NT1 Thrust faults
 RT Diastrophism
 RT Displacements
 RT Fault activation
 RT Fault blocks
 RT Fault systems
 RT Fault zones
 RT Faulting
 RT Fissures
 RT Grabens
 RT Rift valleys
 RT Rock failures

Feasibility

See Comparative evaluations
 See Economics
 See Feasibility studies

Feasibility studies

RT Comparative evaluations
 RT Design
 RT Economics
 RT Efficiency
 RT Performance
 RT Planning
 RT Productivity
 RT Technology assessment
 RT Technology utilization
 RT Testing

Features

See Geologic structures
 See Mountains
 See Submarine trenches

Federal

See German Federal Republic
 See Public lands

Federal lands

Use Public lands

Federal Buildings

BT1 Buildings
 RT Military facilities
 RT Office buildings
 RT Public buildings

Federal Republic of Germany

Use German Federal Republic

Geopressured Geothermal Bibliography

Feldspars

BT1 Silicate minerals
BT2 Minerals
NT1 Adularia
NT1 Microcline
NT1 Orthoclase
NT1 Plagioclases

Ffg

Field

See Cerro Prieto Geothermal Field
See East Mesa KGRA
See Eugene Island Block 18 Field
See Exploration methods
See Field studies
See Geology
See Geysers Geothermal Field
See Hot water systems
See Hydrology
See Larderello Geothermal Field
See Recluse Field
See Rock mechanics
See Valles Caldera Geothermal Field
See Vapor dominated systems
See Wairakei Geothermal Field

Field studies

BT1 Document types
RT Case histories
RT Experimental results
RT Exploration methods
RT Geological setting
RT Geology
RT Hydrology
RT Laboratory studies
RT Rock mechanics
RT Soil mechanics
RT Test facilities

Fields

See Coso Hot Springs KGRA
See East Mesa KGRA
See Geopressured zones
See Geothermal fields
See Geothermal systems
See Gravitation
See Klamath Falls KGRA
See KGRAs
See Marysville KGRA
See Mono-long Valley KGRA
See Natural gas
See Natural gas fields
See Oil fields
See Oil wells
See Petroleum
See Raft River KGRA
See Reservoir rocks

Filtration

BT1 Separation processes

Financial incentives

NT1 Subsidies
RT Economics
RT Financing
RT Profitability
RT Taxes

Financing

RT Budgets
RT Capital
RT Charges
RT Cost
RT Economics
RT Financial incentives
RT Investment
RT Subsidies

Fire

See Fire hazards
See Flammability

Fire hazards

BT1 Hazards
RT Flammability
RT Safety

Fires

RT Flammability

Fish

See Aquaculture

Fish culture

Use Aquaculture

Fishes

BT1 Aquatic organisms
 BT2 Animals
 RT Aquaculture
 RT Aquatic ecosystems
 RT Biology
 RT Hydrosphere
 RT Surface waters

Fissured

See Fractured reservoirs

Fissured formations

Use Fractured reservoirs

Fissures

BT1 Geologic structures
 RT Cracks
 RT Faults
 RT Fractures

Fittings

See Nozzles
 See Pipes

Flame

See Emission spectroscopy

Flame photometry

Use Emission spectroscopy

Flammability

BT1 Chemical properties
 RT Accidents
 RT Fire hazards
 RT Fires
 RT Safety
 RT Volatility

Flash

See Flashing

Flash evaporation

Use Flashing

Flashed

See Flashed steam systems
 See Geothermal energy conversion
 See Thermodynamic cycles

Flashed steam systems

RT Flashing
 RT Geothermal energy conversion
 RT Thermodynamic cycles

Flashing

BT1 Evaporation
 BT2 Phase transformations
 RT Flashed steam systems
 RT Steam
 RT Thermal waters
 RT Two phase flow

Flooding

See Injection rates

Flooding rate

Use Injection rates

Floods

RT Atmospheric precipitations
 RT Hazards
 RT Hydrology
 RT Surface waters

Floor

See Earth crust
 See Oceanic crust
 See Plate tectonics
 See Sea bed
 See Sea floor spreading
 See Seas

Florida

BT1 Gulf Coast
 BT2 North America
 RT Gulf Coast

Flow

See Circulating rate
 See Diagrams
 See Flashing
 See Flow models
 See Flow rate
 See Fluid flow
 See Geothermal energy conversion
 See Heat flow
 See Heat flow surveys
 See Liquid flow
 See Thermal conduction
 See Thermodynamic cycles
 See Two phase flow

Flow (fluid)

Use Fluid flow

Flow charts

Use Diagrams

Geopressured Geothermal Bibliography

Flow models

BT1 Mathematical models
BT2 Models
RT Fluid flow

Flow rate

BT1 Rates
NT1 Circulating rate
RT Flowmeters
RT Fluid flow
RT Hydraulics
RT Hydrodynamics
RT Pressure drop
RT Velocity

Flow string

RT Well casings
See Production tubing
See Tubing (well)
See Well tubing

Flowmeters

BT1 Measuring instruments
RT Flow rate
RT Fluid flow
RT Liquid flow
RT Nozzles

Fluid

See Chemical reactions
See Circulating rate
See Flow rate
See Fluid flow
See Fluid mechanics
See Fluid pressure
See Fluid sampling
See Fluid withdrawal
See Gas turbine power generation
See Geothermal fluids
See Geothermal energy conversion
See Ground water
See Hydrothermal alteration
See Hydrothermal systems
See Interstitial water
See Liquid wastes
See Overdraft
See Reservoir pressure
See Rocks
See Thermodynamic cycles
See Waste disposal

Fluid disposal

Use Liquid wastes
Use Waste disposal

Fluid flow

NT1 Liquid flow
NT1 Two phase flow
RT Cavitation
RT Flow models
RT Flow rate
RT Flowmeters
RT Fluid properties
RT Fluid mechanics
RT Fluids
RT Hydraulics
RT Hydrodynamics
RT Jets
RT Leakage
RT Mass transfer
RT Nozzles
RT Pressure drop
RT Rheology
RT Viscosity

Fluid mechanics

NT1 Hydrodynamics
RT Fluid flow
RT Fluids
RT Hydraulics
RT Hydrostatics

Fluid pressure

Fluid properties

BT1 Physical properties
NT1 Mud weight
RT Compressibility
RT Density
RT Fluid flow

Fluid sampling

BT1 Sampling

Fluid withdrawal

RT Geothermal fluids
RT Ground water
RT Overdraft

Fluidized bed heat exchangers

BT1 Heat exchangers

Fluids

NT1 Gases
 NT1 Geothermal fluids
 NT1 Liquids
 NT1 Reservoir Fluids
 NT1 Working fluids
 RT Fluid flow
 RT Fluid mechanics
 Also see Circulation
 Also see Crevice corrosion
 Also see Drilling
 Also see Drilling fluids
 Also see Drills
 Also see Geothermal brines
 Also see Heat exchangers
 Also see Hydrothermal systems
 Also see Salt water
 Also see Thermal effluents
 Also see Thermodynamic cycles
 Also see Well drilling

Fluorides

BT1 Fluorine inorganic compounds
 BT1 Halides

Fluorine

BT1 Halogens
 BT2 Nonmetals
 Also see Fluorine inorganic compounds

Fluorine inorganic compounds

NT1 Fluorides

Fluorite

BT1 Halide minerals
 BT2 Minerals

Flux

See Heat flow

Fold

See Fold systems

Fold systems

BT1 Geologic structures
 NT1 Anticlinoria
 NT1 Synclinoria
 RT Folds

Folds

BT1 Geologic structures
 NT1 Anticlines
 NT1 Monoclines
 NT1 Overturned folds
 NT1 Synclines
 RT Fold systems
 RT Salt domes

Food processing**Foraminifera**

BT1 Protozoa
 BT2 Microorganisms
 BT2 Invertebrates
 RT Biostratigraphy
 RT Paleontology

Forecasting

RT Correlation
 RT Economic policy
 RT Evaluation
 RT Management
 RT Market
 RT Possibilities

Formation

See Arkansas
 See California
 See Cretaceous Period
 See Disposal formations
 See Ffg
 See Formation heat
 See Formation thickness
 See Fracturing
 See Geopressure
 See Interstitial water
 See Jurassic Period
 See Louisiana
 See Mesozoic Era
 See Mississippi
 See Oklahoma
 See Oligocene Epoch
 See Permeability
 See Plugging
 See Reservoir pressure
 See Subnormal formation pressure
 See Texas
 See Well completion

Formation damage

RT Disposal formations
 RT Permeability
 RT Plugging
 RT Well completion

Geopressured Geothermal Bibliography

Formation fracture gradient
Use FFG

Formation fracturing
Use Fracturing

Formation heat
BT1 Reaction heat
BT2 Enthalpy

Formation plugging
Use Plugging

Formation pressure
Use Reservoir pressure

Formation testing
BT1 Testing
RT Bottom hole pressure
RT Bottom hole temperature
RT Gas production
RT Reserves
RT Reservoir engineering
RT Reservoir pressure
RT Sampling
RT Well logging
RT Well testing

Formation thickness
BT1 Thickness
BT2 Dimensions
RT Isopach
RT Overburden
RT Stratigraphy

Formation water
Use Interstitial water

Formations
See Disposal formations
See Disposal wells
See Fractured reservoirs
See Waste disposal
See Well design

Fossil
See Fossil fuel power plants
See Fossil fuels

Fossil fuel power plants
BT1 Thermal power plants
BT2 Power plants

Fossil fuels
BT1 Energy sources
BT1 Fuels
NT1 Coal
NT1 Natural gas
NT1 Petroleum
RT Oil shale

Fouling
RT Antifoulants
RT Corrosion
RT Demineralization
RT Deposition
RT Plugging
RT Scaling
RT Water pollution

Fracture
See Ffg
See Fracture properties
See Rock properties

Fracture flow

Fracture properties
BT1 Mechanical properties
RT Cracks
RT Failures
RT Fractures
RT Rock properties

Fractured
See Fractured reservoirs

Fractured formations
Use Fractured reservoirs

Fractured reservoirs
BT1 Reservoir rocks
BT2 Rocks

Fractures
RT Cracks
RT Deformation
RT Fissures
RT Fracture properties

Fracturing
NT1 Hydraulic fracturing
Also see Reservoir engineering

Fragmental
See Clastic rocks

Fragmental rocks
Use Clastic rocks

Franciscan
 See California
 See Cretaceous Period
 See Jurassic Period
 See Mesozoic Era

Franciscan Formation
 RT California
 RT Cretaceous Period
 RT Jurassic Period
 RT Mesozoic Era

Francium
 BT1 Alkali metals
 BT2 Metals

Frasch
 See Frasch sulfur process

Frasch sulfur process
 BT1 Recovery processes
 RT Sulfur

Free
 See Free water
 See Ground water

Free ground water
 Use Ground water

Free water
 BT1 Subsurface waters
 RT Artesian water
 RT Capillary water
 RT Ground water
 RT Hygroscopic water
 RT Permeability
 RT Vadose water

Freezing
 See Freezing potential
 See Melting point

Freezing point
 Use Melting point

Freezing potential
 BT1 Physical properties

Fresh
 See Drinking water
 See Fresh water
 See Salt water

Fresh water
 BT1 Water
 RT Drinking water
 RT Estuaries
 RT Lakes
 RT Limnology
 RT Salt water
 RT Water reservoirs

Friction

Frio
 See Louisiana
 See Oligocene Epoch
 See Texas

Frio Formation
 NT1 Brazoria Fairway
 RT Louisiana
 RT Oligocene Epoch
 RT Texas

Frost
 BT1 Atmospheric precipitations
 BT2 Meteorology
 RT Permafrost
 RT Snow

Fuel
 See Fossil fuel power plants
 See Fuel gas
 See Fuel leasing

Fuel gas
 BT1 Gases
 BT2 Fluids
 BT1 Fuels
 BT1 Energy sources
 BT1 Natural gas
 RT Synthetic fuels

Fuel gas
 BT1 Energy sources
 BT1 Fuels
 BT1 Gases
 BT2 Fluids
 NT1 Natural gas

Fuel leasing
 BT1 Leasing

Geopressured Geothermal Bibliography

Fuels

BT1 Fossil fuels
BT2 Coal
BT2 Natural gas
BT2 Petroleum
BT1 Fuel gas
BT1 Synthetic fuels
NT1 Natural gas

Fuels

NT1 Fossil fuels
NT1 Fuel gas
Also see Fossil fuels

Fumaroles

RT Hydrothermal systems
RT Thermal waters

Functional

See Comparative evaluations
See Functional models
See Simulation

Functional models

BT1 Models
NT1 Pilot plants
RT Comparative evaluations
RT Simulation

G codes

BT1 Computer codes

Gabbro

BT1 Intrusive rocks
BT2 Igneous rocks

Gages

See Pressure gages

Galena

BT1 Sulfide minerals
BT2 Minerals

Gallium

BT1 Metals
BT2 Elements

Galveston

See Galveston County

Galveston County

BT1 Texas
BT2 Gulf Coast

Gamma

See Gamma radiation
See Gamma ray logging
See Gamma ray surveys
See Gamma spectroscopy

Gamma radiation

BT1 Electromagnetic
radiation
RT Gamma ray logging
RT Gamma spectroscopy

Gamma ray logging

BT1 Radioactivity logging
BT2 Well logging
RT Gamma radiation
RT Gamma spectroscopy

Gamma ray surveys

BT1 Radioactivity surveys
BT2 Geophysical surveys
RT Gamma spectroscopy

Gamma spectroscopy

BT1 Measuring methods
RT Gamma radiation
RT Gamma ray logging
RT Gamma ray surveys
RT Spectrometric surveys

Gamma-gamma logging

BT1 Radioactivity logging
BT2 Well logging

Gas

See Air
 See Binary cycle power systems
 See Dissolved gases
 See Exploitation
 See Fuel gas
 See Gas analysis
 See Gas chromatography
 See Gas ejectors
 See Gas heating
 See Gas production
 See Gas saturation
 See Gas turbine power plants
 See Gas turbines
 See Gas turbine power generation
 See Gaseous wastes
 See Gases
 See Geophysical surveys
 See Hydrology
 See Hydrothermal systems
 See Interstitial water
 See Natural gas
 See Natural gas deposits
 See Natural gas fields
 See Natural gas industry
 See Natural gas wells
 See Natural occurrence
 See Natural recharge
 See Natural steam
 See Overdraft
 See Pumps
 See Reservoir rocks
 See Resources
 See Salt domes
 See Steam
 See Stratigraphic traps
 See Structural traps
 See Traps
 See Well completion

Gas analysis

BT1 Analysis
 BT1 Chemical analysis methods
 BT2 Measuring methods
 NT1 Air analysis
 RT Gas chromatography
 RT Gases
 RT Mud logging
 RT Qualitative chemical analysis
 RT Quantitative chemical analysis

Gas cap gases

Use Dissolved gases

Gas caps

RT Natural gas

Gas chromatography

BT1 Chromatography
 BT2 Separation processes
 BT2 Chemical analysis methods
 RT Gas analysis
 RT Quantitative chemical analysis

Gas condensates

RT Consensates
 RT Gases

Gas ejectors

RT Air
 RT Gaseous wastes
 RT Pumps
 RT Steam

Gas fields

Use Natural gas fields

Gas heating

BT1 Heating

Gas production

BT1 Production
 RT Formation testing
 RT Natural gas
 RT Natural gas wells
 RT Production testing
 RT Well testing

Gas saturation

BT1 Saturation
 RT Oil saturation
 RT Reservoir rocks
 RT Water saturation

Gas turbine power generation

BT1 Power generation
 RT Binary cycle power systems
 RT Binary fluid systems
 RT Brayton cycles
 RT Gas turbines

Gas turbine power plants

BT1 Thermal power plants
 BT2 Power plants

Geopressured Geothermal Bibliography

Gas turbines	Generation
BT1 Turbines	See <i>Binary cycle power systems</i>
RT Gas turbine power generation	See <i>Brayton cycle</i>
Gas wells	See <i>Combined cycle power generation</i>
Use Natural gas wells	See <i>Gas turbine power generation</i>
Gaseous	See <i>Geothermal energy conversion</i>
See <i>Gaseous wastes</i>	See <i>Power generation</i>
See <i>Gases</i>	See <i>Steam turbine power generation</i>
Gaseous effluents	See <i>Thermodynamic cycles</i>
Use <i>Gaseous wastes</i>	
Gaseous wastes	Generators
BT1 Wastes	Also see <i>Heat exchangers</i>
RT Air pollution	Also see <i>Heat transfer</i>
RT Chemical effluents	Also see <i>Power generation</i>
RT Gas ejectors	Also see <i>Steam</i>
RT Gases	Also see <i>Vapors</i>
RT Odor	Use <i>Steam generators</i>
RT Stack disposal	Use <i>Vapor generators</i>
RT Waste disposal	
Gases	Genesis
BT1 Fluids	Use <i>Origin</i>
NT1 Air	
NT1 Dissolved gases	
NT1 Fuel gas	
NT1 Noncondensable gases	
NT1 Vapors	
RT Gas analysis	
RT Gas condensates	
RT Gaseous wastes	
Also see <i>Dissolved solids</i>	
Also see <i>Rare gases</i>	
Gases in solution	Geo
Use <i>Dissolved gases</i>	See <i>Geothermal brines</i>
Geanticlines	Geo brines
BT1 Anticlines	Use <i>Geothermal brines</i>
BT2 Folds	
RT Geosynclines	
RT Structural geology	
	Geochemical
	See <i>Geochemical surveys</i>
	Geochemical surveys
	BT1 Exploration methods
	RT Marine surveys
	Geochemistry
	BT1 Geology
	BT1 Chemistry
	RT Geologic control
	RT Geothermometers
	RT Geothermometry
	Geochronology
	BT1 Geology
	RT Geologic times
	RT Micropaleontology
	RT Paleontology
	Geographical
	See <i>Geographical distribution</i>
	See <i>Geography</i>

Geographical distribution

BT1 Distribution
RT Geography

Geography

RT Areal geology
RT Earth planet
RT Geographical distribution
RT Oceanography
RT Topography

Geohydrology

Use Hydrogeology

Geoisotherm

Use Isotherm

Geologic

See Compaction
See Depositional environment
See Engineering geology
See Faults
See Fissures
See Geochronology
See Geologic control
See Geologic cross sections
See Geologic deposits
See Geologic processes
See Geologic provinces
See Geologic structures
See Geologic times
See Geothermometers
See Geothermometry
See Sediment deposits
See Strata
See Traps

Geologic age determination

Use Geochronology

Geologic ages

Use Geologic times

Geologic compaction

Use Compaction

Geologic control

BT1 Control
RT Geochemistry
RT Geology

Geologic cross sections

RT Geologic structures

Geologic deposits

NT1 Alluvium
NT1 Natural gas deposits
NT1 Petroleum deposits
NT1 Salt deposits
RT Availability
RT Deposition
RT Mineral resources
RT Sediment deposits
RT Sediments

Geologic engineering

Use Engineering geology

Geologic environment

Use Depositional environment

Geologic faults

Use Faults

Geologic fissures

Use Fissures

Geologic models

RT Geologic structures

Geologic processes

NT1 Diastrophism
NT1 Metamorphism
NT1 Sedimentation
NT1 Volcanism

Geologic provinces

NT1 Anadarko Basin
NT1 Delaware Basin
NT1 Uinta Basin

Geologic strata

Use Strata

Geopressured Geothermal Bibliography

Geologic structures

NT1 Basins
NT1 Fault blocks
NT1 Fault systems
NT1 Fault zones
NT1 Faults
NT1 Fissures
NT1 Fold systems
NT1 Folds
NT1 Grabens
NT1 Permeability barriers
NT1 Rift valleys
NT1 Strata
NT1 Traps
RT Geologic cross sections
RT Geologic models
RT Geological setting
RT Sedimentary structures
RT Stratigraphy

Geologic thermometers

Use Geothermometers

Geologic times

NT1 Cenozoic Era
NT1 Mesozoic Era
NT1 Paleozoic Era
NT1 Precambrian Eras
RT Geochronology

Geologic traps

Use Traps

Geological

See Engineering geology
See Field studies
See Geologic deposits
See Geologic structures
See Geological surveys
See Hydrology
See Minerals
See Rocks

Geological engineering

Use Engineering geology

Geological setting

RT Field studies
RT Geologic structures
RT Geological surveys
RT Hydrology
RT Minerals
RT Rocks

Geological surveys

BT1 Exploration methods
RT Geological setting

Geology

NT1 Areal geology
NT1 Economic geology
NT1 Engineering geology
NT1 Environmental geology
NT1 Geochemistry
NT1 Geochronology
NT1 Geomorphology
NT1 Hydrogeology
NT1 Marine geology
NT1 Petroleum Geology
NT1 Petrology
NT1 Sedimentology
NT1 Tectonics
RT Earth movements
RT Field studies
RT Geologic control
RT Geophysics
RT Paleontology
RT Seismology
RT Stratigraphy
Also see Economics
Also see Engineering geology
Also see Exploitation
Also see Geanticlines
Also see Mineral production
Also see Structural traps

Geomorphology

BT1 Geology
RT Marine geology

Geophysical

See Geophysical surveys
See Well logging

Geophysical exploration

BT1 Exploration
NT1 Electrical exploration
NT1 Geothermal exploration
See Geophysical mapping
See Geophysical prospecting

Geophysical surveys
 BT1 Exploration methods
 NT1 Electrical surveys
 NT1 Gravity surveys
 NT1 Infrared surveys
 NT1 Magnetic surveys
 NT1 Radioactivity surveys
 NT1 Radiometric surveys
 NT1 Seismic surveys
 NT1 Spectrometric surveys
 NT1 Thermal exploration methods
 RT Marine surveys
 RT Natural gas deposits
 RT Petroleum deposits
 RT Well logging

Geophysics
 RT Earth planet
 RT Geology
 RT Paleomagnetism

Geopressure
 RT Geopressured systems
 RT Paleopressure
 Also see Availability
 Also see Geopressure exploration
 Also see Geopressure gradients
 Also see Geopressure resources
 Also see Geothermal power plants

Geopressure anomalies
 RT Geopressure systems

Geopressure exploration
 BT1 Exploration

Geopressure gradients
 BT1 Pressure gradients

Geopressure power plants
 RT Geothermal power plants

Geopressure resources
 BT1 Geothermal resources
 BT2 Resources
 RT Availability

Geopressed
 See Geopressed reservoirs
 See Geopressed systems
 See Geopressed wells
 See Geopressed zones
 See Reservoir properties

Geopressed areas
 Use Geopressed zones

Geopressed fields
 Use Geopressed zones

Geopressed regions
 Use Geopressed zones

Geopressed reservoirs
 BT1 Geothermal reservoirs
 BT2 Subsurface reservoirs
 RT Aquifers
 RT Reservoir engineering
 RT Reservoir pressure
 RT Reservoir properties
 RT Reservoir temperature

Geopressed systems
 BT1 Geothermal systems
 RT Geopressure anomalies
 RT Geopressure
 RT Geopressed zones

Geopressed wells
 BT1 Geothermal wells
 BT2 Wells
 RT Well spacing
 RT Wellheads

Geopressed zones
 RT Geopressed systems
 RT Well spacing

Geostatic
 See Geostatic pressure

Geostatic pressure
 RT Overburden

Geosynclines
 BT1 Synclines
 BT2 Folds
 RT Geanticlines
 RT Synclinoria

Geotectonics
 Use Tectonics

Geopressured Geothermal Bibliography

Geothermal

See Cerro Prieto Geothermal Field
See Coso Hot Springs KGRA
See Crevice corrosion
See Direct energy utilization
See Directional drilling
See East Mesa KGRA
See Geothermal brines
See Geothermal drilling
See Geothermal energy
See Geothermal exploration
See Geothermal fields
See Geothermal fluids
See Geothermal gradients
See Geothermal gradient surveys
See Geothermal heating
See Geothermal industry
See Geothermal power plants
See Geothermal reservoirs
See Geothermal resources
See Geothermal space heating
See Geothermal systems
See Geothermal wells
See Geothermal energy conversion
See Geysers Geothermal Field
See Heat flow
See Hot water systems
See Hydrothermal systems
See Klamath Falls KGRA
See KGRAs
See Larderello Geothermal Field
See Marysville KGRA
See Mono-long Valley KGRA
See Natural steam
See Raft River KGRA
See Reserves
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir temperature
See Rock mechanics
See Telluric surveys
See Thermal effluents
See Thermal waters
See Valles Caldera Geothermal Field
See Vapor dominated systems
See Wairakei Geothermal Field
See Well drilling

Geothermal areas

Use Geothermal fields

Geothermal brines

BT1 Brines
BT2 Solutions
RT Geothermal fluids
RT Injectability injectivity
RT Thermal effluents
RT Thermal waters

Geothermal drilling

BT1 Well drilling
BT2 Drilling

Geothermal energy

BT1 Energy
RT Geothermal industry
RT KGRAs

Geothermal energy conversion

BT1 Energy conversion
BT2 Conversion
RT Binary fluid systems
RT Flashed steam systems
RT Geothermal power plants
RT Power generation
RT Total flow systems

Geothermal exploration

BT1 Exploration
BT1 Geophysical exploration
RT Geothermal gradient surveys
RT Telluric surveys
RT Well logging equipment

Geothermal fields

NT1 Cerro Prieto Geothermal Field
 NT1 Chocolate Bayou Geothermal Field
 NT1 Geysers Geothermal Field
 NT1 Larderello Geothermal Field
 NT1 McAllen Ranch Geothermal Field
 NT1 Tigre Lagoon Geothermal Field
 NT1 Valles Caldera Geothermal Field
 NT1 Wairakei Geothermal Field
 RT Coso Hot Springs KGRA
 RT East Mesa KGRA
 RT Geothermal systems
 RT Imperial Valley
 RT Jemez Mountains
 RT Klamath Falls KGRA
 RT KGRAs
 RT Marysville KGRA
 RT Mono-long Valley KGRA
 RT Raft River KGRA
 RT Well spacing

Geothermal fluids

BT1 Fluids
 NT1 Natural steam
 RT Brines
 RT Crevice corrosion
 RT Fluid withdrawal
 RT Geothermal brines
 RT Hydrothermal systems
 RT Thermal effluents
 RT Thermal waters

Geothermal flux

Use Heat flow

Geothermal gradients

BT1 Temperature gradients
 RT Heat flow

Geothermal heat flow

Use Heat flow

Geothermal heating

BT1 Heating
 NT1 Geothermal space heating
 RT Steam heating

Geothermal industry

BT1 Industry
 RT Geothermal energy

Geothermal power plants

BT1 Thermal power plants
 BT2 Power plants
 RT Geopressure power plants
 RT Geothermal energy conversion

Geothermal refrigeration

RT Direct energy utilization
 RT Geothermal space heating

Geothermal regions

Use Geothermal fields

Geothermal reservoirs

BT1 Subsurface reservoirs
 NT1 Geopressured reservoirs
 RT Aquifers
 RT Reservoir engineering
 RT Reservoir pressure
 RT Reservoir properties
 RT Reservoir temperature

Geothermal resources

BT1 Resources
 NT1 Geopressure resources
 RT Availability
 RT Natural steam
 RT Reserves
 RT Resource depletion
 RT Rock mechanics
 Also see KGRAs

Geothermal space heating

BT1 Space heating
 BT2 Heating
 BT1 Geothermal heating
 BT2 Heating
 RT Direct energy utilization
 RT Geothermal refrigeration

Geothermal steam

Use Natural steam

Geothermal systems

NT1 Geopressured systems
 NT1 Hot dry rock systems
 NT1 Hydrothermal systems
 NT1 Magma systems
 RT Geothermal fields

Geopressured Geothermal Bibliography

Geothermal wells

BT1 Wells
NT1 Geopressured wells
RT Directional drilling
RT Injection wells
RT Well drilling
RT Well spacing
RT Wellheads

Geothermometers

RT Geochemistry
RT Geothermometry
RT Measuring instruments
RT Temperature measurement
RT Thermometers

Geothermometry

BT1 Measuring methods
RT Geochemistry
RT Geothermometers
RT Temperature measurement

German

See German Democratic Republic
See German Federal Republic

German Democratic Republic

BT1 Europe
BT2 Continents

German Federal Republic

BT1 Europe
BT2 Continents

Germanium

BT1 Metals
BT2 Elements

Germany

Use German Democratic Republic
Use German Federal Republic

Geysers

BT1 Hot springs
BT2 Thermal springs
RT Ground water
RT Hydrothermal systems
RT Thermal waters
Also see Geysers Geothermal Field
Also see Vapor dominated systems

Geysers Geothermal Field

BT1 Geothermal fields
BT1 California
BT2 Gulf Coast
RT Vapor dominated systems

Gibbsite

BT1 Oxide minerals
BT2 Minerals

Global

See Global aspects

Global aspects

Gold

BT1 Transition elements
BT2 Metals

Government

See Government policies
See Local government
See National government
See Regulations
See State government

Government

See Regulations

Government policies

NT1 Energy policy
NT1 Environmental policy
RT Economic policy
RT Institutional aspects
RT Legal aspects
RT Legislation
RT Local government
RT National government
RT Pollution law
RT State government

Grabens

BT1 Geologic structures
RT Faults
RT Rift valleys

Gradient

See Ffg
See Geothermal exploration
See Geothermal gradient surveys

Gradients

See Density
 See Differential pressure
 See Geopressure gradients
 See Geothermal gradients
 See Heat flow
 See Isopiestic measurement
 See Isotherm
 See Pressure drop
 See Pressure gradients
 See Pressure measurement
 See Temperature distribution
 See Temperature gradients

Grande

See Colorado
 See New Mexico
 See Rift valleys
 See Rio Grande
 See Rio Grande Embayment
 See Rio Grande Rift

Granite

BT1 Intrusive rocks
 BT2 Igneous rocks

Granites

Use Granite

Granodiorite

BT1 Intrusive rocks
 BT2 Igneous rocks

Graphic

See Graphic methods

Graphic methods**Graphics**

See Graphic methods

Graphs

BT1 Information
 NT1 Production decline curve
 RT Data
 RT Experimental results
 RT Tables

Gravel

See Gravel packing

Gravel packing

RT Sand control
 RT Waste disposal

Gravimetry

BT1 Measuring methods
 RT Gravitation
 RT Gravity surveys

Gravitation

RT Gravimetry
 RT Gravitation fields
 RT Gravity surveys

Gravitation fields

RT Gravitation

Gravitational

See Free water

Gravitational water

Use Free water

Gravity

See Gravimetry
 See Gravitation
 See Gravity logging
 See Gravity surveys
 See Normal faults

Gravity faults

Use Normal faults

Gravity logging

BT1 Well logging
 RT Gravity surveys

Gravity surveys

BT1 Geophysical surveys
 BT2 Exploration methods
 RT Gravimetry
 RT Gravitation
 RT Gravity logging

Great

See Great Valley

Great Valley

BT1 California
 BT2 USA
 BT3 North America

Greene

See Greene County

Greene County

BT1 Mississippi
 BT2 Gulf Coast

Geopressured Geothermal Bibliography

Greenhouses

BT1 Buildings
RT Direct energy utilization

Ground

See Aquifers
See Artesian water
See Compaction
See Consolidation
See Dewatering
See Fluid withdrawal
See Free water
See Ground motion
See Ground subsidence
See Ground water
See Ground water recharge
See Overdraft
See Seismic events
See Underground disposal
See Water
See Water management
See Water table

Ground disposal

Use Underground disposal

Ground motion

RT Earth movements
RT Seismic events
RT Shock waves

Ground subsidence

BT1 Earth movements
RT Compaction
RT Consolidation
RT Injection wells
RT Rock mechanics

Ground water

BT1 Subsurface waters
NT1 Interstitial water
NT1 Meteoric water
RT Aquifers
RT Artesian basins
RT Artesian water
RT Dewatering
RT Drawdown
RT Fluid withdrawal
RT Free water
RT Geysers
RT Ground water recharge
RT Hydraulic conductivity
RT Hydrology
RT Liquid wastes
RT Overdraft
RT Water
RT Water management
RT Water resources
RT Water springs
RT Water table

Ground water depletion

Use Overdraft

Ground water level

Use Water table

Ground water recharge

NT1 Artificial recharge
NT1 Natural recharge
RT Aquifers
RT Drawdown
RT Ground water
RT Overdraft
RT Water entry
RT Water table

Ground water reservoirs

Use Aquifers

Ground water withdrawal

Use Fluid withdrawal

Growth

See Growth faults

Growth faults

BT1 Faults
BT2 Geologic structures
RT Deposition

Guidelines

Use Recomendations

Guides

See Recommendations
See Regulations

Guinea

See Australia
See New Guinea

Gulf

See Arabian Sea
See Gulf Coast
See Gulf of Mexico

Gulf of Mexico

BT1 Caribbean Sea
BT2 Atlantic Ocean
RT Gulf Coast

Gulf Coast

BT1 North America
NT1 Florida
NT1 Louisiana
NT1 Mississippi
NT1 Texas
RT Florida
RT Gulf of Mexico
RT Louisiana
RT Mississippi
RT Tabasco
RT Texas
RT USA

Gulf Coast Basin

Use Gulf Coast

Gulf Coastal plain

Use Gulf Coast

Gypsum

BT1 Sulfate minerals
BT2 Minerals
RT Anhydrite
RT Calcium sulfates

Habitats

See Aquatic ecosystems

Halide

See Halide minerals
See Halides

Halide minerals

BT1 Minerals
NT1 Fluorite
NT1 Halite
RT Halides

Halides

NT1 Bromides
NT1 Chlorides
NT1 Fluorides
NT1 Iodides
RT Halide minerals

Halite

BT1 Halide minerals
BT2 Minerals
RT Salts
RT Sodium chlorides

Halogens

BT1 Nonmetals
BT2 Elements
NT1 Astatine
NT1 Bromine
NT1 Chlorine
NT1 Fluorine
NT1 Iodine

Halokinesis

Use Salt tectonics

Handling

See Waste management

Handling (wastes)

Use Waste management

Harris

See Harris County

Harris County

BT1 Texas
BT2 Gulf Coast

Harris Fairway

BT1 Texas
BT2 USA
BT3 North America

Hawaii

BT1 Islands
BT1 USA
BT2 North America

Geopressured Geothermal Bibliography

Hazards

NT1 Fire hazards
NT1 Health hazards
RT Accidents
RT Explosions
RT Failures
RT Floods
RT Hurricanes
RT Insurance
RT Liabilities
RT Pressure release
RT Reliability
RT Safety
RT Storms
Also see Flammability

Head

See Hydrostatic pressure
See Pressure buildup
See Pressure decline
See Well head pressure
See Well head temperature
See Wells

Head buildup

Use Pressure buildup

Head drawdown

Use Pressure decline

Heads

See Wellheads

Health

See Health hazards
See Human populations
See Public health

Health hazards

BT1 Hazards
RT Safety

Hearings

RT Arbitration
RT Courts
RT Lawsuits
RT Legislation
RT Meetings

Heat

BT1 Energy
NT1 Process heat
RT Energy recovery
RT Temperature effects
Also see Crevice corrosion
Also see Direct energy utilization
Also see Energy balance
Also see Enthalpy
Also see Exploitation
Also see Formation heat
Also see Heat budget
Also see Heat exchangers
Also see Heat extraction
Also see Heat flow
Also see Heat flow surveys
Also see Heat sources
Also see Heat storage
Also see Heat transfer
Also see Heating
Also see Industrial heating
Also see Lakes
Also see Reaction heat
Also see Specific heat
Also see Steam condensers
Also see Temperature effects
Also see Thermal conduction
Also see Thermal conductivity
Also see Thermal equilibrium
Also see Thermal insulation
Also see Two phase flow
Also see Waste heat

Heat balance

RT Energy balance

Heat budget

RT Lakes
RT Limnology
RT Specific heat

Heat capacity

Use Specific heat

Heat content

Use Enthalpy

Heat discharge

Use Heat flow
Use Waste heat

Heat effects

Use Temperature effects

Heat exchangers

NT1 Fluidized bed heat exchangers
 RT Cooling towers
 RT Crevice corrosion
 RT Evaporators
 RT Heat transfer
 RT Steam condensers
 RT Steam generators
 RT Working fluids

Heat extraction

RT Exploitation
 RT Heating

Heat flow

RT Geothermal gradients
 RT Heat sources
 RT Heat transfer
 RT Thermal conduction
 RT Thermal conductivity

Heat flow surveys

BT1 Thermal exploration methods
 BT2 Geophysical surveys

Heat flux

Use Heat flow

Heat insulation

Use Thermal insulation

Heat of formation

Use Formation heat

Heat sources

BT1 Energy sources
 RT Heat flow

Heat storage

BT1 Energy storage
 BT2 Storage
 RT Stored energy

Heat transfer

BT1 Energy transfer
 NT1 Convection
 NT1 Thermal conduction
 RT Boiling
 RT Cooling
 RT Heat exchangers
 RT Heat flow
 RT Steam condensers
 RT Steam generators
 RT Thermal conductivity
 RT Thermal diffusion
 RT Thermal equilibrium
 RT Thermal insulation
 RT Two phase flow

Heat transmission

Use Heat transfer

Heated

See Thermal effluents

Heated effluents

Use Thermal effluents

Heaters

RT Heating

Heating

NT1 District heating
 NT1 Electric heating
 NT1 Gas heating
 NT1 Geothermal heating
 NT1 Hot water heating
 NT1 Industrial heating
 NT1 Space heating
 NT1 Steam heating
 NT1 Superheating
 RT Boiling
 RT Heat extraction
 RT Heaters
 RT Radiators
 Also see Direct energy utilization
 Also see Geothermal space heating

Helium

BT1 Rare gases
 BT2 Nonmetals

Hematite

BT1 Oxide minerals
 BT2 Minerals
 BT1 Iron oxides
 BT2 Iron inorganic compounds

Geopressured Geothermal Bibliography

Heterogenous

See Heterogenous effects

Heterogenous effects

BT1 Effects

Hexane

BT1 Alkanes

BT2 Hydrocarbons

Hidalgo

See Hidalgo County

Hidalgo County

BT1 Texas

BT2 Gulf Coast

High

See High concentration

See High pressure

See High temperature

High concentration

RT Concentration dependence

High pressure

RT Pressure dependence

High temperature

RT Temperature dependence

Hills

See Kettleman Hills

See Lost Hills

Histories

See Case histories

See Field studies

Hole

See Bottom hole pressure

See Bottom hole temperature

See Downhole pumps

See Hole diameter

See Reservoir temperature

See Temperature logging

See Wells

Hole diameter

BT1 Diameter

RT Caliper logging

RT Wells

Hole size

Use Hole diameter

Holes

See Boreholes

Homes

Also see Mobile homes

Use Houses

Hot

See Coso Hot Springs KGRA

See Hot dry rock systems

See Hot springs

See Hot water

See Hot water heating

See Hot water systems

See Hydrothermal systems

See Texas

See Thermal waters

Hot dry rock systems

BT1 Geothermal systems

RT Injection wells

Hot dry rocks

See Hot dry rock systems

Hot rocks

See Hot dry rock systems

Hot springs

BT1 Thermal springs

BT2 Water springs

NT1 Geysers

RT Hydrothermal systems

RT Mineral springs

RT Thermal waters

Also see Coso Hot Springs

KGRA

Hot water

Hot water heating

BT1 Heating

RT District heating

RT Space heating

Hot water systems

BT1 Hydrothermal systems

BT2 Geothermal systems

RT Cerro Prieto Geothermal

Field

RT Wairakei Geothermal Field

Houses

BT1 Residential buildings

BT2 Buildings

RT Mobile homes

Hudspeth
See Hudspeth County

Hudspeth County
BT1 Texas
BT2 Gulf Coast

Human
See Demography
See Human populations
See Sociology
See Socio-economic factors

Human populations
BT1 Populations
NT1 Rural populations
NT1 Urban populations
RT Demography
RT Public health
RT Regional analysis
RT Sociology
RT Socio-economic factors

Hungary
BT1 Europe
BT2 Continents
NT1 Carpathian Basin

Hurricanes
BT1 Storms
RT Hazards
RT Weather
RT Wind

Hydrates
RT Water

Hydraulic
See Hydraulic fracturing
See Reservoir engineering

Hydraulic conductivity
BT1 Hydrologic properties
BT1 Physical properties
RT Ground water
RT Permeability
RT Porous media

Hydraulic fracturing
BT1 Fracturing
RT Reservoir engineering
RT Well stimulation

Hydraulics
RT Flow rate
RT Fluid flow
RT Fluid mechanics
RT Hydrodynamics
RT Hydrostatic pressure

Hydroblasting
Use Jets

Hydrocarbons
BT1 Organic compounds
NT1 Alkanes
RT Petroleum

Hydrodynamic
See Hydrodynamic pressure

Hydrodynamic pressure
BT1 Hydropressure

Hydrodynamics
BT1 Fluid mechanics
RT Flow rate
RT Fluid flow
RT Hydraulics
RT Liquid flow
RT Working fluids

Hydroelectric
See Hydroelectric power plants

Hydroelectric power plants
BT1 Power plants

Hydrogen
BT1 Nonmetals
BT2 Elements
Also see Air pollution
Also see Dissolved gases
Also see Environmental effects
Also see Hydrogen sulfides
Also see Hydrogen inorganic compounds
Also see Ph value

Hydrogen inorganic compounds
NT1 Ammonia
NT1 Hydrogen sulfides

Hydrogen ion concentration
Use Ph value

Geopressured Geothermal Bibliography

Hydrogen sulfides

BT1 Hydrogen inorganic compounds
BT1 Sulfides
BT2 Sulfur inorganic compounds
RT Air pollution
RT Dissolved gases
RT Environmental effects

Hydrogeology

BT1 Geology
BT1 Hydrology
RT Aquifers
RT Hydraulic conductivity
RT Marine geology
RT Subsurface waters

Hydrologic properties

NT1 Diffusivity
NT1 Hydraulic conductivity
NT1 Permeability
NT1 Transmissivity
RT Physical properties
RT Rock properties

Hydrology

NT1 Hydrogeology
RT Drainage systems
RT Field studies
RT Floods
RT Geological setting
RT Ground water
RT Lakes
RT Natural recharge
RT Surface waters

Hydrolysis

BT1 Decomposition
BT2 Chemical reactions
RT Aqueous solutions

Hydropressure

NT1 Artesian pressure
NT1 Hydrodynamic pressure
NT1 Hydrostatic pressure

Hydrosphere

RT Aquatic ecosystems
RT Atmospheric precipitations
RT Environment
RT Fishes
RT Limnology
RT Surface waters
RT Water

Hydrostatic

See Hydrostatic pressure

Hydrostatic head

Use Hydrostatic pressure

Hydrostatic pressure

BT1 Hydropressure
BT1 Static pressure
NT1 Pore pressure
RT Hydraulics
RT Hydrostatics
RT Reservoir pressure

Hydrostatics

RT Fluid mechanics
RT Hydrostatic pressure

Hydrothermal

See Burial
See Geothermal reservoirs
See Hot water systems
See Hydrothermal alteration
See Hydrothermal systems
See Magma
See Volcanism

Hydrothermal alteration

RT Burial
RT Hydrothermal stage
RT Rock fluid interactions

Hydrothermal convective systems

Use Hydrothermal systems

Hydrothermal reservoirs

Use Geothermal reservoirs

Hydrothermal stage

RT Hydrothermal alteration
RT Hydrothermal systems
RT Magma
RT Volcanism

Hydrothermal systems
 BT1 Geothermal systems
 NT1 Hot water systems
 NT1 Vapor dominated systems
 RT Fumaroles
 RT Geothermal fluids
 RT Geysers
 RT Hot springs
 RT Hydrothermal stage
 RT Natural steam
 RT Rock fluid interactions
 RT Thermal springs
 RT Thermal waters

Hydroxide
 See Ph value

Hydroxide ion concentration
 Use Ph value

Hygroscopic
 See Free water
 See Hygroscopic water

Hygroscopic water
 RT Free water

Iberia
 See Iberia Parish

Iberia Parish
 BT1 Louisiana
 BT2 Gulf Coast
 NT1 Weeks Island

Iceland
 BT1 Europe
 BT2 Continents

Idaho
 BT1 USA
 BT2 North America
 NT1 Raft River KGRA
 RT Yellowstone National Park

Igneous
 See Igneous intrusions
 See Igneous rocks
 See Intrusive rocks
 See Petrology

Igneous intrusions
 NT1 Batholiths
 NT1 Concordant intrusions
 NT1 Discordant intrusions
 NT1 Stock intrusions
 RT Intrusive rocks

Igneous rocks
 BT1 Rocks
 NT1 Aphanitic rocks
 NT1 Extrusive rocks
 NT1 Intrusive rocks
 NT1 Magma
 NT1 Phaneritic rocks
 NT1 Porphyritic rocks
 RT Petrology

Illite
 BT1 Clay minerals
 BT2 Silicate minerals

Ilmenite
 BT1 Iron oxides
 BT2 Iron inorganic compounds

Impact
 See Economics
 See Environmental impact statements
 See Inflation
 See Sociology
 See Socio-economic factors

Imperial
 See Geothermal fields
 See Imperial Valley
 See Rift valleys

Imperial County
 BT1 California
 BT2 USA
 BT3 North America

Imperial Valley
 BT1 California
 BT2 Gulf Coast
 NT1 East Mesa KGRA
 NT1 Salton Sea
 RT Geothermal fields
 RT Rift valleys

Impermeable
 See Hot dry rock systems

Impermeable dry rock
 Use Hot dry rock systems

Implementation
 RT Legislation
 RT Regulations

Geopressured Geothermal Bibliography

Income

RT Charges
RT Economics
RT Profitability
RT Profits
RT Royalties

Indexes

BT1 Document types

India

BT1 Asia
BT2 Continents

Indian

See Indian Ocean

Indian Ocean

BT1 Seas
BT2 Surface waters
NT1 Arabian Sea

Indies

See West Indies

Indium

BT1 Metals
BT2 Elements

Induction

See Induction logging

Induction logging

BT1 Electrical logging
BT2 Well logging
RT Magnetic surveys
RT Resistivity logging
RT Resistivity surveys
RT Sp logging

Industrial

See Direct energy utilization
See Industrial buildings
See Industrial heating
See Industrial plants

Industrial buildings

BT1 Buildings

Industrial heating

BT1 Heating
RT Direct energy utilization
RT Process heat

Industrial plants

NT1 Petrochemical plants
RT Demonstration plants
RT Industry
RT Pilot plants

Industry

NT1 Electric power industry
NT1 Geothermal industry
NT1 Natural gas industry
NT1 Paper industry
NT1 Petroleum industry
RT Anthropogenic occurrence
RT By-products
RT Industrial plants
RT Ownership
RT Technology assessment
RT Technology utilization
RT Zoning
Also see Electric power
Also see Exploitation
Also see Geothermal energy
Also see Natural gas
Also see Petroleum
Also see Power plants

Inert

See Rare gases

Inert gases

Use Rare gases

Infinite

See Infinite dilution
See Low concentration
See Solutions
See Trace amounts

Infinite dilution

RT Dilution
RT Low concentration
RT Solutions
RT Trace amounts

Inflation

RT Cost
RT Economic impact
RT Economics

Inflow

See Water influx

Influx

See Water influx

Information

NT1 Data
 NT1 Graphs
 NT1 Tables
 NT1 Well data
 RT Document types
 Also see Information needs
 Also see Information systems
 Also see Monitoring
 Also see Well information systems

Information needs

RT Data
 RT Information retrieval
 RT Information systems
 RT Research programs

Information retrieval

RT Information needs
 RT Information systems

Information systems

NT1 Well information systems
 RT Documentation
 RT Information needs
 RT Information retrieval

Infrared

See Infrared surveys

Infrared surveys

BT1 Geophysical surveys
 BT2 Exploration methods
 RT Remote sensing

Inhibitors

See Corrosion
 See Corrosion monitoring
 See Corrosion protection

Initial

See Reservoir pressure

Initial reservoir pressure

Use Reservoir pressure

Injectability

RT Geothermal brines
 RT Injection
 RT Injectivity
 RT Waste injection

Injection

RT Charging
 RT Injectability
 RT Injectivity
 RT Water influx
 Also see Artificial recharge
 Also see Geothermal wells
 Also see Ground subsidence
 Also see Hot dry rock systems
 Also see Injection pumps
 Also see Injection rates
 Also see Injection wells

Injection pressure

RT Injection rates
 RT Injection wells

Injection pumps

BT1 Pumps
 BT1 Surface equipment
 BT2 Equipment
 RT Injection wells
 RT Waste injection

Injection rates

BT1 Rates
 RT Injection pressure
 RT Injection wells

Injection wells

BT1 Wells
 NT1 Disposal wells
 RT Artificial recharge
 RT Geothermal wells
 RT Ground subsidence
 RT Hot dry rock systems
 RT Injection pressure
 RT Injection pumps
 RT Injection rates
 RT Observation wells
 RT Underground disposal
 RT Waste disposal

Injectivity

RT Geothermal brines
 RT Injection
 RT Injectability
 RT Waste injection

Injuries

RT Safety

Geopressured Geothermal Bibliography

Inorganic

See Aluminum inorganic compounds
See Barium inorganic compounds
See Boron inorganic compounds
See Bromine inorganic compounds
See Calcium inorganic compounds
See Carbon inorganic compounds
See Chlorine inorganic compounds
See Fluorine inorganic compounds
See Hydrogen inorganic compounds
See Inorganic compounds
See Iodine inorganic compounds
See Iron inorganic compounds
See Magnesium inorganic compounds
See Nitrogen inorganic compounds
See Oxygen inorganic compounds
See Silver inorganic compounds
See Sodium inorganic compounds
See Strontium inorganic compounds
See Sulfur inorganic compounds

Inorganic compounds

Input

See Injection wells

Input wells

Use Injection wells

Inspection

RT Legal aspects
RT Licensing
RT Materials testing
RT Performance testing
RT Recommendations
RT Safeguards
RT Sampling
RT Specifications

Installation

RT Construction

Institutional

See Government policies
See Management

Institutional aspects

RT Government policies
RT Management

Instruments

See Equipment
See Measuring instruments
See Measuring methods
See Well logging

Instruments (measuring)

Use Measuring instruments

Insulation

Also see Thermal conduction
Use Thermal insulation

Insurance

RT Accidents
RT Hazards
RT Legal aspects
RT Liabilities

Interactions

See Chemical reactions
See Hydrothermal alteration
See Hydrothermal systems
See Rocks

Interference

See Aquifer tests
See Observation wells
See Reservoir properties
See Subsurface reservoirs
See Well interference
See Wells

Interference tests

Use Aquifer tests

Interior

See Earth core
See Earth mantle

Interstitial

See Interstitial water
 See Oil wells
 See Reservoir pressure
 See Reservoir rocks
 See Sandstone
 See Solutions

Interstitial fluid

Use Interstitial water

Interstitial fluid pressure

Use Reservoir pressure

Interstitial water

BT1 Ground water
 BT2 Subsurface waters
 NT1 Connate water
 RT Natural gas wells
 RT Oil wells
 RT Pore pressure
 RT Reservoir rocks
 RT Sandstone
 RT Solutions

Intrusions

See Batholiths
 See Concordant intrusions
 See Dike intrusions
 See Discordant intrusions
 See Igneous intrusions
 See Intrusive rocks
 See Sill intrusions
 See Stock intrusions

Intrusions (igneous)

Use Igneous intrusions

Intrusive

See Intrusive rocks

Intrusive rocks

BT1 Igneous rocks
 BT2 Rocks
 NT1 Anorthosite
 NT1 Diabase
 NT1 Gabbro
 NT1 Granite
 NT1 Granodiorite
 NT1 Pegmatite
 RT Igneous intrusions
 RT Plutonic rocks

Invertebrates

BT1 Animals
 NT1 Protozoa

Inverted

See Overturned folds

Inverted folds

Use Overturned folds

Investment

RT Capital
 RT Cost
 RT Economics
 RT Financing
 RT Ownership
 RT Profitability
 RT Royalties
 Also see Profits

Iodides

BT1 Iodine inorganic compounds
 BT1 Halides

Iodine

BT1 Halogens
 BT2 Nonmetals
 Also see Iodine inorganic compounds

Iodine inorganic compounds

NT1 Iodides

Ion

See Ion exchange
 See Ph value

Ion exchange

BT1 Separation processes
 RT Precipitation

Ions

NT1 Anions
 NT1 Cations
 RT Electrolysis

Iron

BT1 Transition elements
 BT2 Metals
 Also see Iron inorganic compounds
 Also see Iron oxides
 Also see Pyrite

Iron inorganic compounds

NT1 Iron oxides

Geopressured Geothermal Bibliography

Iron oxides

BT1 Iron inorganic compounds
BT1 Oxides
 BT2 Oxygen inorganic compounds
NT1 Hematite
NT1 Ilmenite

Iron pyrites

Use Pyrite

Irrigation

RT Agriculture
RT Cultivation techniques
RT Water management
RT Water quality

Island

See Eugene Island Block 18
Field
See Island arcs
See Weeks Island

Island arcs

Islands

NT1 Borneo
NT1 Hawaii

Isobutane

Use 2-methylpropane

Isochore

See Isochore maps

Isochore maps

BT1 Stratigraphic maps
BT2 Maps
RT Isopach maps

Isogeotherm

Use Isotherm

Isopach

RT Formation thickness
RT Isopach maps
Also see Isochore maps

Isopach maps

BT1 Stratigraphic maps
BT2 Maps
RT Isochore maps
RT Isopach

Isopiestic

See Isopiestic measurement

Isopiestic measurement

BT1 Measuring methods
RT Pressure control
RT Pressure dependence
RT Pressure drop
RT Pressure gradients
RT Pressure measurement
RT Pressure release

Isoporosity

See Isoporosity maps

Isoporosity maps

BT1 Maps
BT2 Document types
RT Porosity

Isopressure

See Isopressure maps

Isopressure maps

BT1 Maps
BT2 Document types

Isosaline

See Isosaline maps

Isosaline maps

BT1 Maps
BT2 Document types

Isostasy

RT Earth crust

Isotherm

RT Isothermal maps
RT Temperature distribution
RT Temperature gradients
RT Temperature measurement

Isothermal

See Isothermal maps

Isothermal maps

BT1 Maps
BT2 Document types
RT Isotherm

Isotropy

RT Anisotropy
RT Distribution

Italy

BT1 Europe
BT2 Continents
NT1 Larderello Geothermal Field

Japan
 BT1 Asia
 BT2 Continents
 NT1 Nagaoka Plain

Jeff
 See Jeff Davis County

Jeff Davis
 See Jeff Davis County

Jeff Davis County
 BT1 Texas
 BT2 Gulf Coast

Jefferson
 See Jefferson Davis Parish

Jefferson Davis
 See Jefferson Davis Parish

Jefferson Davis Parish
 BT1 Louisiana
 BT2 Gulf Coast

Jemez
 See Geothermal fields
 See Jemez Mountains

Jemez Mountains
 BT1 Mountains
 BT1 New Mexico
 BT2 USA
 BT3 North America
 RT Geothermal fields

Jets
 RT Boreholes
 RT Fluid flow
 RT Nozzles
 RT Water

Joaquin
 See San Joaquin Valley

Jurassic
 See Jurassic Period

Jurassic Period
 BT1 Mesozoic Era
 BT2 Geologic times
 RT Franciscan Formation

Juvenile
 See Juvenile water

Juvenile water
 BT1 Subsurface waters

Kaolin
 BT1 Clay minerals
 BT2 Silicate minerals
 NT1 Dickite
 NT1 Kaolinite

Kaolinite
 BT1 Kaolin
 BT2 Clay minerals

Kenedy
 See Kenedy County

Kenedy County
 BT1 Texas
 BT2 Gulf Coast

Kenedy Fairway
 BT1 Texas
 BT2 USA
 BT3 North America

Kerogen
 RT Oil shale

Kettleman
 See Kettleman Hills

Kettleman Hills
 BT1 California
 BT2 USA
 BT3 North America

Kg/sq
 See Elevated pressure
 See High pressure
 See Low pressure
 See Moderate pressure
 See Standard pressure

Kicks
 RT Blowouts

Kinetic
 See Kinetic energy

Kinetic energy
 BT1 Energy
 RT Energy recovery
 RT Potential energy
 RT Velocity

Geopressured Geothermal Bibliography

Klamath

See Klamath Falls KGRA
See Klamath Falls KGRA

Klamath Falls

See Klamath Falls KGRA

Klamath Falls KGRA

BT1 KGRAs
BT1 Oregon
BT2 Gulf Coast
RT Geothermal fields

Kleberg

See Kleberg County

Kleberg County

BT1 Texas
BT2 Gulf Coast

Known

See KGRAs

Known geothermal resource areas

Use KGRAs

Krypton

BT1 Rare gases
BT2 Nonmetals

KGRA

See Coso Hot Springs KGRA
See East Mesa KGRA
See Klamath Falls KGRA
See Marysville KGRA
See Mono-long Valley KGRA
See Raft River KGRA

KGRAs

NT1 Coso Hot Springs KGRA
NT1 East Mesa KGRA
NT1 Klamath Falls KGRA
NT1 Marysville KGRA
NT1 Mono-long Valley KGRA
NT1 Raft River KGRA
RT Geothermal energy
RT Geothermal fields
RT Leasing
RT Legal aspects
RT Public lands

Laboratory

See Experimental results
See Field studies
See Laboratory equipment
See LASL
See Testing

Laboratory equipment

BT1 Equipment

Laboratory studies

RT Experimental results
RT Field studies

Laboratory testing

RT Testing

Lafayette

See Lafayette Parish

Lafayette Parish

BT1 Louisiana
BT2 Gulf Coast

Lagrange

See Lagrange equations

Lagrange equations

BT1 Differential equations
BT2 Equations
RT Mechanics

Lakes

BT1 Surface waters
NT1 Caspian Sea
NT1 Salton Sea
RT Cooling ponds
RT Fresh water
RT Heat budget
RT Hydrology
RT Limnology
RT Shores
RT Water reservoirs

Land

See Ground subsidence
See Land leasing
See Land pollution
See Land pollution abatement
See Land pollution control
See Land reclamation
See Land requirements
See Mineral rights
See Ownership
See Public lands
See Zoning

Land leasing
 BT1 Leasing
 RT Land use
 RT Leases
 RT Legal aspects
 RT Mineral rights
 RT Ownership
 RT Public lands
 RT Regulations

Land ownership
 Use Ownership

Land pollution
 BT1 Pollution
 RT Land pollution abatement
 RT Land pollution control
 RT Land use

Land pollution abatement
 BT1 Abatement
 RT Land pollution
 RT Land pollution control
 RT Land reclamation
 RT Land use

Land pollution control
 BT1 Pollution control
 BT2 Control
 RT Land pollution
 RT Land pollution abatement
 RT Land reclamation
 RT Land use

Land reclamation
 RT Land pollution abatement
 RT Land pollution control
 RT Land use

Land requirements
 RT Land use

Land subsidence
 Use Ground subsidence

Land titles
 Use Ownership

Land use
 RT Land leasing
 RT Land pollution
 RT Land pollution abatement
 RT Land pollution control
 RT Land reclamation
 RT Land requirements
 RT Ownership
 RT Public lands
 RT Zoning

Lands
 See KGRAs
 See Land leasing
 See Public lands
 See Reserves

Larderello
 See Larderello Geothermal Field
 See Vapor dominated systems

Larderello Geothermal Field
 BT1 Geothermal fields
 BT1 Italy
 BT2 Europe
 RT Vapor dominated systems

Lateral
 See Lateral faults

Lateral faults
 BT1 Faults
 BT2 Geologic structures

Laterolog
 BT1 Resistivity logging
 BT2 Electrical logging

Lava
 RT Magma
 RT Magma systems
 RT Volcanism

Law
 See Environmental impact statements
 See Government policies
 See Pollution
 See Pollution law

Geopressured Geothermal Bibliography

Laws

NT1 Pollution law
RT Compliance
RT Enforcement
RT Legal aspects
RT Legislation
RT Regulations

Lawsuits

RT Arbitration
RT Courts
RT Hearings

LaFourche Parish

BT1 Louisiana
BT2 USA
BT3 North America

Leaching

BT1 Separation processes
RT Solubility

Lead

BT1 Metals
BT2 Elements

Leading

See Leading abstract

Leading abstract

BT1 Abstracts
BT2 Document types

Leakage

RT Fluid flow
RT Lost circulation
RT Permeability
RT Porosity
RT Water influx

Leases

RT Land leasing
RT Leasing
RT Mineral rights

Leasing

NT1 Fuel leasing
NT1 Land leasing
RT Development
RT Exploitation
RT KGRAS
RT Leases
RT Legal aspects
Also see Mineral rights
Also see Ownership

Lectures

BT1 Document types

Legal

See Government policies
See Inspection
See Land leasing
See Laws
See Leasing
See Legal aspects
See Mineral rights
See Ownership
See Patents
See Recommendations

Legal aspects

RT Compliance
RT Enforcement
RT Government policies
RT Inspection
RT Insurance
RT KGRAs
RT Land leasing
RT Laws
RT Leasing
RT Legislation
RT Liabilities
RT Licensing
RT Mineral rights
RT Ownership
RT Patents
RT Recommendations
RT Regulations
RT Safeguards
RT Safety standards
RT Water rights

Legislation

RT Government policies
RT Hearings
RT Implementation
RT Laws
RT Legal aspects
RT Local government
RT National government
RT Regulations
RT State government

Level

See Water table

Liabilities

RT Accidents
RT Hazards
RT Insurance
RT Legal aspects

Licenses	Liquid waste disposal
Use Licensing	Use Liquid wastes
Licensing	Use Waste disposal
RT Inspection	Liquid wastes
RT Legal aspects	BT1 Wastes
RT Patents	NT1 Waste water
RT Recommendations	RT Brine treatment
RT Regulations	RT Chemical effluents
RT Royalties	RT Ground water
RT Safety standards	RT Surface waters
RT Site selection	RT Waste disposal
RT Water	RT Waste processing
Life-cycle cost	
BT1 Cost	
RT Cost benefit analysis	
RT Economics	
Limestone	Liquids
BT1 Sedimentary rocks	BT1 Fluids
BT2 Rocks	RT Liquid flow
RT Calcite	RT Saturated vapor
RT Carbonate rocks	RT Vapors
RT Clastic rocks	
RT Nonclastic rocks	
Limnology	Literature
RT Aquatic ecosystems	See Reviews
RT Fresh water	
RT Heat budget	
RT Hydrosphere	
RT Lakes	Literature reviews
RT Oceanography	Use Reviews
RT Surface waters	
Liquid	Lithification
See Ground water	RT Burial
See Hot water systems	RT Diagenesis
See Liquid flow	RT Rocks
See Liquid wastes	RT Sedimentary rocks
See Surface waters	RT Sedimentology
See Waste disposal	RT Sediments
See Water	
Liquid dominated hydrothermal systems	Lithium
Use Hot water systems	BT1 Alkali metals
Liquid effluents	BT2 Metals
Use Liquid wastes	
Liquid flow	Lithology
BT1 Fluid flow	RT Petrology
RT Flowmeters	RT Sedimentary rocks
RT Hydrodynamics	
RT Liquids	Lithosphere
RT Two phase flow	RT Earth crust
	RT Earth planet
	RT Earth planetary structure
	Lithostatic
	See Geostatic pressure
	Lithostatic pressure
	Use Geostatic pressure
	Lithotope
	Use Depositional environment

Geopressured Geothermal Bibliography

Live Oak County

BT1 Texas
BT2 USA
BT3 Louisiana

Live Oak Fairway

BT1 Texas
BT2 USA
BT3 North America

Livestock

Use Domestic animals

Local

See Government policies
See Local government
See National government
See Regulations
See State government

Local government

RT Government policies
RT Legislation
RT National government
RT Regulations
RT State government

Location

See Exploration

Logging

See Acoustic monitoring
See Caliper logging
See Cement bond logging
See Dipmeter logging
See Electrical logging
See Gamma ray logging
See Gamma spectroscopy
See Gravity logging
See Hole diameter
See Induction logging
See Magnetic logging
See Microresistivity logging
See Neutron logging
See Nuclear magnetic logging
See Production logging
See Radioactivity logging
See Reservoir temperature
See Resistivity logging
See Seismic detection
See Sonic logging
See Sound velocity
See Sound waves
See Sp logging
See Temperature logging
See Temperature surveys
See Well characteristics
See Well drilling
See Well logging
See Wells

Logging (well)

Use Well logging

Logs

See Well logging

Long

See Mono-long Valley KGRA

Long Valley

Use Mono-long Valley KGRA

Los

See LASL

Los Alamos

See LASL

Los Alamos Scientific

Laboratory

Use LASL

Lost

See Lost circulation
 See Lost Hills
 See Permeability
 See Porosity
 See Wells

Lost circulation

RT Leakage
 RT Permeability
 RT Porosity
 RT Wells

Lost Hills

BT1 California
 BT2 USA
 BT3 North America

Louisiana

BT1 Gulf Coast
 BT2 North America
 NT1 Acadia Parish
 NT1 Calcasieu Parish
 NT1 Cameron Parish
 NT1 Edna Delcambre No. 1
 Well
 NT1 Eugene Eugene Island
 Block 18 Field
 NT1 Fairfax Foster Sutter
 No. 2 Well
 NT1 Iberia Parish
 NT1 Jefferson Davis Parish
 NT1 Lafayette Parish
 NT1 Lafourche Parish
 NT1 St Mary Parish
 NT1 Tenneco Fee "N" No. 1
 Well
 NT1 Terrebonne Parish
 NT1 Tigre Lagoon Geothermal
 Field
 NT1 Vermilion Parish
 NT1 Vermillion Parish
 RT Frio Formation
 RT Gulf Coast
 RT Norphlet Formation
 RT Queen City Formation
 RT Smackover Formation
 RT Vicksburg Formation
 RT Wilcox Formation

Low

See Low concentration
 See Low pressure
 See Low temperature
 See Trace amounts

Low concentration

RT Concentration dependence
 RT Infinite dilution
 RT Trace amounts

Low pressure

RT Pressure dependence

Low temperature

RT Temperature dependence

Lubricants

RT Drilling fluids

Lumps

See Mud lumps

LASL

BT1 US organizations
 BT2 National organizations

Magma

BT1 Igneous rocks
 BT2 Rocks
 RT Hydrothermal stage
 RT Lava
 RT Magma reservoirs
 RT Magma systems
 Also see Magma reservoirs
 Also see Magma systems
 Also see Volcanism

Magma reservoirs

BT1 Subsurface reservoirs
 RT Magma
 RT Magma systems
 RT Volcanism

Magma systems

BT1 Geothermal systems
 RT Lava
 RT Magma
 RT Magma reservoirs

Magmatic

See Juvenile water

Magmatic water

Use Juvenile water

Geopressured Geothermal Bibliography

Magnesium

BT1 Alkaline earth metals
BT2 Metals
Also see Dolomite
Also see Magnesium carbonates
Also see Magnesium chlorides
Also see Magnesium sulfates

Magnesium carbonates

BT1 Magnesium inorganic compounds
RT Dolomite

Magnesium chlorides

BT1 Magnesium inorganic compounds
BT1 Chlorides
BT2 Chlorine inorganic compounds

Magnesium inorganic compounds

RT Magnesium carbonates
RT Magnesium chlorides
RT Magnesium sulfates

Magnesium sulfates

BT1 Magnesium inorganic compounds
BT1 Sulfates
BT2 Oxygen inorganic compounds

Magnetic

See Induction logging
See Magnetic logging
See Magnetic surveys
See Nuclear magnetic logging
See Nuclear magnetic resonance

Magnetic induction logging

Use Induction logging

Magnetic logging

BT1 Well logging

Magnetic surveys

BT1 Geophysical surveys
BT2 Exploration methods
RT Induction logging

Magnetotelluric

See Magnetotelluric surveys

Magnetotelluric surveys

BT1 Electromagnetic surveys
BT2 Electrical surveys

Maintenance

RT Operation

Management

NT1 Waste management
NT1 Water management
RT Allocations
RT Forecasting
RT Institutional aspects
RT Ownership
RT Personnel
RT Public relations
Also see Radioactive wastes
Also see Recovery processes
Also see Wastes

Manganese

BT1 Transition elements
BT2 Metals

Manometers

Use Pressure gages

Mantle

Also see Earth crust
Use Earth mantle

Mantlerock

Use Overburden

Manuals

BT1 Document types
RT Education
RT Recommendations

Mapping

See Exploration methods
See Maps
See Topography

Maps

BT1 Document types
 NT1 Contour maps
 NT1 Isoporosity maps
 NT1 Isopressure maps
 NT1 Isosaline maps
 NT1 Isothermal maps
 NT1 Stratigraphic maps
 RT Diagrams
 RT Topography
 RT Topological mapping
 Also see Facies maps
 Also see Isochore maps
 Also see Isopach maps
 Also see Net sand maps
 Also see Sand percent maps
 Also see Sand trend maps
 Also see Trend maps

Marble

BT1 Metamorphic rocks
 BT2 Rocks
 RT Calcite
 RT Dolomite

Mariculture

Use Aquaculture

Marine

See Geochemical surveys
 See Geophysical surveys
 See Marine geology
 See Marine surveys
 See Sea water

Marine exploration

Use Marine surveys

Marine geology

BT1 Geology
 RT Continental shelf
 RT Continental slopes
 RT Engineering geology
 RT Geomorphology
 RT Hydrogeology
 RT Oceanography
 RT Sea bed
 RT Seas

Marine surveys

RT Geochemical surveys
 RT Geophysical surveys

Marine water

Use Sea water

Market

RT Commercialization
 RT Economics
 RT Forecasting
 RT Trade

Mary

See St Mary Parish

Marysville

See Marysville KGRA

Marysville KGRA

BT1 KGRAs
 BT1 Montana
 BT2 USA
 BT3 North America
 RT Geothermal fields

Mass

See Convection
 See Electrodialysis
 See Energy transfer
 See Fluid flow
 See Mass transfer

Mass transfer

RT Convection
 RT Diffusion
 RT Electrodialysis
 RT Energy transfer
 RT Fluid flow
 RT Osmosis

Matagorda

See Matagorda County

Matagorda County

BT1 Texas
 BT2 Gulf Coast

Matagorda Fairway

BT1 Texas
 BT2 USA
 BT3 North America

Materials

See Corrosion
 See Inspection
 See Materials recovery
 See Materials testing
 See Mechanical properties
 See Organic matter
 See Stresses

Geopressured Geothermal Bibliography

Materials recovery

BT1 Waste processing
BT2 Processing
BT2 Waste management
RT Energy recovery

Materials testing

BT1 Testing
RT Corrosion
RT Inspection
RT Mechanical properties
RT Performance testing
RT Stresses

Mathematical

See Comparative evaluations
See Computer codes
See Empirical equations
See Equations
See Mathematical methods
See Mathematical models
See Mathematics
See Measurement
See Measuring methods
See Simulation

Mathematical methods

RT Calculation methods
RT Measurement
RT Measuring methods
RT Numerical analysis

Mathematical models

BT1 Models
NT1 Flow models
NT1 Statistical models
RT Comparative evaluations
RT Computer codes
RT Correlation
RT Empirical equations
RT Equations
RT Mathematics
RT Numerical solution
RT Simulation
RT Structural models

Mathematics

NT1 Numerical analysis
NT1 Trend analysis
RT Algorithms
RT Differential equations
RT Equations
RT Mathematical models
RT Numerical solution
RT Statistical models

Matrix

See Rock matrix

Matrix (rock)

Use Rock matrix

Matter

See Organic compounds
See Organic matter
See Solid wastes

Maturation

RT Petroleum
See Thermal alteration

McAllen Ranch Geothermal Field

BT1 Geothermal fields
BT1 Texas
BT2 USA
BT3 North America

Measurement

NT1 Pressure measurement
NT1 Temperature measurement
RT Calculation methods
RT Mathematical methods
RT Measuring methods
Also see Bottom hole
pressure
Also see Geothermometers
Also see Geothermometry
Also see Isopiestic
measurement
Also see Measuring
instruments
Also see Physical properties
Also see Pressure control
Also see Pressure gages
Also see Temperature control
Also see Temperature logging
Also see Temperature
monitoring

Measuring

See Equipment
See Measurement
See Measuring instruments
See Measuring methods
See Sampling
See Well logging

Measuring instruments

NT1 Flowmeters
 NT1 Piezometers
 NT1 Pressure gages
 NT1 Seismographs
 NT1 Thermometers
 RT Calibration
 RT Equipment
 RT Geothermometers
 RT Measuring methods
 RT Pressure measurement
 RT Recording systems
 RT Sensitivity
 RT Temperature measurement
 RT Well logging

Measuring methods

NT1 Absorption spectroscopy
 NT1 Chemical analysis
 methods
 NT1 Emission spectroscopy
 NT1 Gamma spectroscopy
 NT1 Geothermometry
 NT1 Gravimetry
 NT1 Isopiestic measurement
 NT1 Nuclear magnetic
 resonance
 NT1 Piezometry
 RT Calculation methods
 RT Calibration
 RT Mathematical methods
 RT Measurement
 RT Measuring instruments
 RT Qualitative chemical
 analysis
 RT Quantitative chemical
 analysis
 RT Sampling
 RT Sensitivity

Mechanical

See Mechanical properties
 See Rheology
 See Stresses

Mechanical properties

NT1 Brittleness
 NT1 Compressibility
 NT1 Creep
 NT1 Fatigue
 NT1 Fracture properties
 NT1 Plasticity
 NT1 Shear properties
 NT1 Tensile properties
 RT Deformation
 RT Materials testing
 RT Rheology
 RT Rock properties
 RT Shear stress
 RT Soil mechanics
 RT Stresses

Mechanics

RT Lagrange equations
 Also see Consolidation
 Also see Field studies
 Also see Fluid flow
 Also see Fluid mechanics
 Also see Ground subsidence
 Also see Mechanical
 properties
 Also see Reservoir
 engineering
 Also see Rock failures
 Also see Rock mechanics
 Also see Rock properties
 Also see Rocks
 Also see Sea bed
 Also see Slope stability
 Also see Soils

Media

See Porosity
 See Semipermeable membranes

Meetings

RT Document types
 RT Hearings
 RT Proceedings

Melting

BT1 Phase transformations
 Also see Melting point

Melting point

BT1 Transition temperature
 BT2 Thermodynamic
 properties

Membranes

Use Semipermeable membranes

Geopressured Geothermal Bibliography

Mercury

BT1 Metals
BT2 Elements

Mesa

See East Mesa KGRA

Mesozoic

See Mesozoic Era

Mesozoic Era

BT1 Geologic times
NT1 Cretaceous Period
NT1 Jurassic Period
NT1 Triassic Period
RT Franciscan Formation

Metals

BT1 Elements
NT1 Actinides
NT1 Alkali metals
NT1 Alkaline earth metals
NT1 Aluminum
NT1 Antimony
NT1 Bismuth
NT1 Cadmium
NT1 Gallium
NT1 Germanium
NT1 Indium
NT1 Lead
NT1 Mercury
NT1 Polonium
NT1 Rare earths
NT1 Thallium
NT1 Tin
NT1 Transition elements
NT1 Zinc

Metamorphic

See Metamorphic rocks
See Petrology

Metamorphic rocks

BT1 Rocks
NT1 Amphibolite
NT1 Marble
NT1 Schist
NT1 Slate
RT Petrology

Metamorphism

BT1 Geologic processes
RT Burial

Meteoric

See Atmospheric
precipitations
See Meteoric water

Meteoric water

BT1 Ground water
BT2 Subsurface waters
RT Atmospheric
precipitations

Meteorology

NT1 Atmospheric
precipitations
RT Climates
RT Earth atmosphere
RT Seasons
RT Site selection
RT Storms
RT Temperature inversions
RT Weather
RT Wind

Methane

BT1 Alkanes
BT2 Hydrocarbons
RT Dissolved gases

Method

See Resistivity surveys

Methods

See Chemical analysis
methods
See Exploration
See Exploration methods
See Graphic methods
See Mathematical methods
See Measurement
See Measuring methods
See Numerical solution
See Sampling
See Thermal exploration
methods

Methylene

See Methylene blue

Methylene blue

BT1 Organic compounds

Methylpropane

See 2-methylpropane

Mexico
 BT1 North America
 BT2 Continents
 NT1 Cerro Prieto Geothermal Field
 NT1 Tabasco
 Also see Gulf Coast
 Also see Gulf of Mexico
 Also see New Mexico

Micas
 BT1 Silicate minerals
 BT2 Minerals
 NT1 Biotite
 NT1 Muscovite
 NT1 Sericite

Microcline
 BT1 Feldspars
 BT2 Silicate minerals

Microearthquakes
 BT1 Earthquakes
 BT2 Seismic events
 BT2 Earth movements

Microlaterologging
 Use Microresistivity logging

Micrologging
 Use Microresistivity logging

Microorganisms
 NT1 Bacteria
 NT1 Protozoa
 RT Biology

Micropaleontology
 RT Geochronology
 Use Paleontology

Microresistivity
 See Microresistivity logging

Microresistivity logging
 BT1 Resistivity logging
 BT2 Electrical logging

Microseismicity
 Use Microseisms

Microseisms
 BT1 Seismic waves
 RT Seismic noise
 RT Seismology

Middle
 See Middle East

Middle East
 NT1 Turkey

Migration

Military facilities
 RT Federal buildings

Mineral
 See Dolomite
 See Engineering geology
 See Geologic deposits
 See Hot springs
 See Mineral composition
 See Mineral exploration
 See Mineral production
 See Mineral resources
 See Mineral rights
 See Mineral springs
 See Mineral wastes
 See Minerals
 See Ownership
 See Recovery processes
 See Thermal springs

Mineral composition
 BT1 Composition

Mineral deposits

Mineral exploration
 BT1 Exploration

Mineral production
 BT1 Production
 RT Economic geology

Mineral recovery
 RT Minerals
 RT Recovery processes

Mineral resources
 BT1 Resources
 RT Engineering geology
 RT Geologic deposits
 RT Mineral rights
 RT Ownership

Mineral rights
 BT1 Ownership
 RT Land leasing
 RT Leases
 RT Legal aspects
 RT Mineral resources

Geopressured Geothermal Bibliography

Mineral springs

BT1 Water springs
RT Hot springs
RT Thermal springs

Mineral wastes

BT1 Solid wastes
BT2 Wastes
RT Chemical effluents

Mineralization

RT Burial
RT Crystallization

Mineralogy

RT Minerals
Also see Clay
Also see Clay mineralogy

Minerals

NT1 Carbonate minerals
NT1 Halide minerals
NT1 Oxide minerals
NT1 Silica minerals
NT1 Silicate minerals
NT1 Sodium minerals
NT1 Sulfate minerals
NT1 Sulfide minerals
RT Crystallography
RT Geological setting
RT Mineral recovery
RT Mineralogy
Also see Carbonates
Also see Chlorite minerals
Also see Clay
Also see Clay mineralogy
Also see Clay minerals
Also see Halides
Also see Sulfates
Also see Sulfides

Miocene

See Miocene Epoch

Miocene Epoch

BT1 Tertiary Period
BT2 Cenozoic Era

Mississippi

BT1 Gulf Coast
BT2 North America
NT1 Greene County
NT1 Rankin County
RT Gulf Coast
RT Smackover Formation
RT Vicksburg Formation
RT Wilcox Formation
Also see Mississippi River

Mississippi River

BT1 North America
BT2 Continents
BT1 Rivers
BT2 Streams

Mississippian

See Mississippian Period

Mississippian Period

BT1 Carboniferous Periods
BT2 Paleozoic Era

Mixtures

RT Solutions

Mobile

See Mobile homes

Mobile homes

BT1 Buildings
RT Houses

Models

NT1 Functional models
NT1 Mathematical models
NT1 Structural models
Also see Comparative evaluations
Also see Computer codes
Also see Empirical equations
Also see Equations
Also see Flow models
Also see Fluid flow
Also see Geologic structures
Also see Mathematics
Also see Simulation
Also see Statistical models

Moderate

See Moderate concentration
See Moderate pressure
See Moderate temperature

Moderate concentration

RT Concentration dependence

Moderate pressure
RT Pressure dependence

Moderate temperature
RT Temperature dependence

Molar
See Elevated concentration
See High concentration
See Low concentration
See Moderate concentration

Molybdenum
BT1 Transition elements
BT2 Metals

Monitoring
NT1 Acoustic monitoring
NT1 Air monitoring
NT1 Corrosion monitoring
NT1 Scale monitoring
NT1 Temperature monitoring
NT1 Water monitoring
NT1 Well monitoring
RT Control
RT Detection
RT Remote control
RT Well information systems
Also see Air pollution
Also see Air pollution monitors
Also see Corrosion
Also see Corrosive effects
Also see Crevice corrosion
Also see Observation wells
Also see Water pollution
Also see Well information systems

Monitoring wells
Use Observation wells

Monitors
See Air pollution
See Air pollution control
See Air pollution monitors

Monitors (air pollution)
Use Air pollution monitors

Mono
See Mono-long Valley KGRA

Mono-long
See Mono-long Valley KGRA

Mono-long Valley KGRA
BT1 KGRAs
BT1 California
BT2 USA
BT3 North America
RT Geothermal fields

Monoclines
BT1 Folds
BT2 Geologic structures

Montana
BT1 USA
BT2 North America
NT1 Marysville KGRA
RT Yellowstone National Park

Montgomery Fairway
BT1 Texas
BT2 USA
BT3 North America

Montmorillonite
BT1 Clay minerals
BT2 Silicate minerals

Mordenite
BT1 Zeolites
BT2 Silicate minerals

Morrow
See Arkansas
See Oklahoma

Morrow Formation
RT Arkansas
RT Oklahoma

Motion
See Ground motion
See Seismic events

Mountains
NT1 Coast ranges
NT1 Jemez Mountains
NT1 Urals
Also see Geothermal fields
Also see Jemez Mountains

Movements
See Earth movements
See Geology
See Ground motion
See Seismic waves
See Seismology

Geopressured Geothermal Bibliography

Mud
See Circulating rate
See Mud lumps
See Mud volcanoes

Mud flow rate
Use Circulating rate

Mud logging
BT1 Well logging
RT Drilling fluids
RT Gas analysis

Mud lumps
BT1 Shale diapirs
BT2 Diapirs

Mud volcanoes
BT1 Shale diapirs
BT2 Diapirs

Mud weight
BT1 Fluid properties
BT2 Physical properties
RT Density
RT Drilling fluids

Muds
Use Drilling fluids

Mudstone
BT1 Clastic rocks
BT2 Sedimentary rocks
RT Sediment deposits
RT Shale
RT Siltstone

Municipal
See District heating

Municipal heating
Use District heating

Muscovite
BT1 Micas
BT2 Silicate minerals

Mutation zone

MWD systems
RT Drilling
RT Well drilling
RT Well logging
See Downhole information systems
See Measurements while drilling

Nagaoka
See Nagaoka Plain

Nagaoka Plain
BT1 Japan
BT2 Asia

National
See Government policies
See National government
See National organizations
See Regulations
See Yellowstone National Park

National government
RT Government policies
RT Legislation
RT Local government
RT National organizations
RT Regulations
RT State government

National organizations
NT1 US organizations
RT National government

Natural
See Exploitation
See Gas production
See Geophysical surveys
See Geothermal resources
See Hydrology
See Hydrothermal systems
See Interstitial water
See Natural gas
See Natural gas deposits
See Natural gas fields
See Natural gas industry
See Natural gas wells
See Natural occurrence
See Natural recharge
See Natural steam
See Overdraft
See Reservoir rocks
See Resources
See Salt domes
See Stratigraphic traps
See Structural traps
See Traps
See Well completion

Natural gas

BT1 Fossil fuels
 BT2 Fuels
 BT1 Fuel gas
 BT2 Fuels
 BT2 Gases
 RT Condensates
 RT Drilling rigs
 RT Gas caps
 RT Gas production
 RT Natural gas deposits
 RT Natural gas fields
 RT Natural gas industry
 RT Natural gas wells
 RT Public utilities
 RT Regulation
 Also see Exploitation
 Also see Geophysical surveys
 Also see Geothermal resources
 Also see Hydrology
 Also see Hydrothermal systems
 Also see Interstitial water
 Also see Natural gas wells
 Also see Natural occurrence
 Also see Natural recharge
 Also see Natural steam
 Also see Overdraft
 Also see Reservoir rocks
 Also see Resources
 Also see Stratigraphic traps
 Also see Structural traps
 Also see Traps
 Also see Well completion

Natural gas deposits

BT1 Geologic deposits
 BT1 Reserves
 NT1 Natural gas fields
 RT Geophysical surveys
 RT Natural gas
 RT Natural gas industry
 RT Petroleum geology
 RT Resources
 RT Salt domes
 RT Stratigraphic traps
 RT Structural traps
 RT Traps
 RT Well logging equipment

Natural gas fields

BT1 Natural gas deposits
 BT2 Reserves
 BT2 Geologic deposits
 RT Natural gas
 RT Natural gas wells
 RT Reservoir fluids
 RT Reservoir rocks
 RT Well spacing

Natural gas industry

BT1 Industry
 RT Exploitation
 RT Natural gas
 RT Natural gas deposits

Natural gas liquids**Natural gas production**

Use Gas production

Natural gas wells

BT1 Wells
 RT Abandoned wells
 RT Blowout preventers
 RT Gas production
 RT Interstitial water
 RT Natural gas
 RT Natural gas fields
 RT Wellhead prices
 RT Well completion
 RT Wellheads

Natural occurrence

RT Anthropogenic occurrence

Natural recharge

BT1 Ground water recharge
 RT Hydrology
 RT Overdraft

Natural resources

Use Resources

Natural steam

BT1 Geothermal fluids
 BT2 Fluids
 RT Geothermal resources
 RT Hydrothermal systems

Needs

See Information needs

Neogene Ephch

BT1 Tertiary Period
 BT2 Cenozoic Era
 BT3 Geologic times

Geopressured Geothermal Bibliography

Neon

BT1 Rare gases
BT2 Nonmetals

Net

See Net energy

Net energy

RT Efficiency
RT Energy accounting
RT Energy consumption
RT Energy yield
RT Productivity

Net sand maps

BT1 Facies maps
BT2 Stratigraphic maps
RT Sand percent maps
RT Sand trend maps

Net sand thickness

Use Formation thickness

Neutral

See Pore pressure

Neutral pressure

Use Pore pressure

Neutral stress

Use Pore pressure

Neutron

See Neutron logging

Neutron logging

BT1 Radioactivity logging
BT2 Well logging

Nevada

BT1 USA
BT2 North America

New Guinea

BT1 Australasia
RT Australia
RT New Zealand

New Mexico

BT1 USA
BT2 North America
NT1 Jemez Mountains
NT1 Valles Caldera
Geothermal Field
RT Rio Grande Rift

New Zealand

BT1 Australasia
NT1 Wairakei Geothermal Field
RT New Guinea

Newton/sq

See High pressure
See Low pressure
See Standard pressure

Nickel

BT1 Transition elements
BT2 Metals

Nigeria

BT1 Africa
BT2 Continents

Nitrogen

BT1 Nonmetals
BT2 Elements

Nitrogen inorganic compounds

RT Ammonia

Nmr

Also see Nuclear magnetic logging
Use Nuclear magnetic resonance

Noble

See Rare gases

Noise

RT Noise pollution abatement
RT Sound waves
Also see Microseisms
Also see Noise pollution
Also see Noise pollution control

Noise pollution

BT1 Pollution
RT Noise pollution abatement
RT Noise pollution control

Noise pollution abatement

BT1 Abatement
RT Noise
RT Noise pollution
RT Noise pollution control

Noise pollution control
 BT1 Pollution control
 BT2 Control
 RT Noise pollution
 RT Noise pollution abatement

Nonaqueous
 See Aqueous solutions
 See Nonaqueous solutions

Nonaqueous solutions
 BT1 Solutions
 RT Aqueous solutions

Nonclastic
 See Nonclastic rocks

Nonclastic rocks
 BT1 Sedimentary rocks
 BT2 Rocks
 NT1 Chert
 NT1 Dolomite rocks
 NT1 Evaporites
 RT Limestone

Noncondensable
 See Noncondensable gases

Noncondensable gases
 Use Noncondensable gases

Noncondensable
 See Noncondensable gases

Noncondensable gases
 BT1 Gases
 BT2 Fluids

Nonelectrical
 See Direct energy utilization

Nonelectrical applications
 Use Direct energy utilization

Nonmetals
 BT1 Elements
 NT1 Carbon
 NT1 Halogens
 NT1 Hydrogen
 NT1 Nitrogen
 NT1 Oxygen
 NT1 Phosphorus
 NT1 Rare gases
 NT1 Sulfur

Normal
 See Normal faults

Normal faults
 BT1 Faults
 BT2 Geologic structures

Norphlet
 See Louisiana
 See Texas

Norphlet Formation
 RT Louisiana
 RT Texas

North
 See North America
 See North Sea

North America
 BT1 Continents
 NT1 Gulf Coast
 NT1 Mexico
 NT1 Mississippi River
 NT1 Rio Grande Rift
 NT1 USA

North Sea
 BT1 Atlantic Ocean
 BT2 Seas

Nozzles
 RT Flowmeters
 RT Fluid flow
 RT Jets
 RT Pipe fittings

Nuclear
 See Nuclear energy
 See Nuclear explosives
 See Nuclear magnetic logging
 See Nuclear power plants
 See Nuclear magnetic resonance
 See Radioactivity logging
 See Seismic events

Nuclear energy
 BT1 Energy
 RT Nuclear power plants

Nuclear explosions
 BT1 Explosions
 RT Seismic events

Nuclear explosives
 BT1 Explosives

Geopressured Geothermal Bibliography

- Nuclear logging**
 - Use Radioactivity logging
- Nuclear magnetic logging**
 - BT1 Radioactivity logging
 - BT2 Well logging
 - RT Nuclear magnetic resonance
- Nuclear magnetic resonance**
 - BT1 Measuring methods
 - NT1 Crystallography
 - RT Nuclear magnetic logging
- Nuclear power**
 - Use Nuclear energy
- Nuclear power plants**
 - BT1 Thermal power plants
 - BT2 Power plants
 - RT Nuclear energy
- Nueces**
 - See Nueces County
- Nueces County**
 - BT1 Texas
 - BT2 Gulf Coast
- Numerical**
 - See Empirical equations
 - See Mathematical methods
 - See Mathematical models
 - See Mathematics
 - See Numerical analysis
 - See Numerical solution
- Numerical analysis**
 - BT1 Mathematics
 - RT Computer calculations
 - RT Mathematical methods
 - RT Numerical solution
- Numerical solution**
 - RT Calculation methods
 - RT Computer calculations
 - RT Mathematical models
 - RT Mathematics
 - RT Numerical analysis
- Numerical solutions**
 - RT Empirical equations
- NMR logging**
 - Use Nuclear magnetic logging
 - Use Rare gases
- Observation**
 - See Injection wells
 - See Observation wells
- Observation wells**
 - BT1 Wells
 - RT Aquifer tests
 - RT Injection wells
 - RT Well testing
 - RT Well interference
- Obsidian**
 - BT1 Pyroclastic rocks
 - BT2 Extrusive rocks
- Occurrence**
 - Also see Industry
 - Also see Natural occurrence
 - Use Anthropogenic occurrence
- Ocean**
 - See Atlantic Ocean
 - See Indian Ocean
 - See Ocean basins
 - See Ocean thermal power plants
 - See Ocean thermal energy conversion
 - See Pacific Ocean
 - See Rift valleys
 - See Sea bed
 - See Sea water
 - See Seas
 - See Submarine trenches
- Ocean basins**
 - BT1 Basins
 - BT2 Geologic structures
- Ocean floor**
 - Use Sea bed
- Ocean ridges**
 - RT Rift valleys
- Ocean thermal energy conversion**
 - BT1 Solar energy conversion
 - BT2 Energy conversion
 - RT Ocean thermal power plants
- Ocean thermal power plants**
 - BT1 Thermal power plants
 - BT2 Power plants
 - RT Ocean thermal energy conversion

Ocean trenches
Use Submarine trenches

Ocean water
Use Sea water
Use Seas

Oceanic
See Continental crust
See Oceanic crust

Oceanic crust
BT1 Earth crust
BT2 Earth planetary structure
RT Continental crust
RT Continental slopes
RT Sea floor spreading

Oceanography
RT Earth planet
RT Geography
RT Limnology
RT Marine geology
RT Seas
RT Surface waters

Oceans
Use Seas

Odor
RT Air pollution
RT Gaseous wastes
RT Water analysis

Office
See Office buildings

Office buildings
BT1 Commercial buildings
BT2 Buildings
RT Federal buildings

Offshore
See Coastal waters
See Marine surveys
See Offshore sites
See Seas
See Shores
See Site selection

Offshore sites
RT Coastal waters
RT Estuaries
RT Seas
RT Shores
RT Site selection

Offshore surveys
Use Marine surveys

Oil
See Fossil fuels
See Gas saturation
See Oil drilling
See Oil fields
See Oil production
See Oil saturation
See Oil shale
See Oil wells
See Petroleum
See Reservoir rocks
See Well completion

Oil drilling
BT1 Well drilling
BT2 Drilling

Oil fields
BT1 Petroleum deposits
BT2 Reserves
BT2 Geologic deposits
RT Oil wells
RT Petroleum
RT Reservoir fluids
RT Reservoir rocks
RT Well spacing

Oil production
BT1 Production
RT Oil wells
RT Water production
RT Well testing

Oil saturation
RT Gas saturation
RT Reservoir rocks
RT Water saturation

Oil shale
BT1 Shale
BT2 Clastic rocks
RT Fossil fuels
RT Kerogen

Geopressured Geothermal Bibliography

Oil wells

BT1 Wells
RT Abandoned wells
RT Blowout preventers
RT Blowouts
RT Interstitial water
RT Oil fields
RT Oil production
RT Petroleum
RT Reentry
RT Wellhead prices
RT Well completion
RT Well spacing
RT Wellheads

Oklahoma

BT1 USA
 BT2 North America
RT Anadarko Basin
RT Morrow Formation

Oligocene

See Oligocene Epoch

Oligocene Epoch

BT1 Tertiary Period
 BT2 Cenozoic Era
RT Frio Formation

Opal

BT1 Silica minerals
BT2 Minerals

Open

See Thermodynamic cycles

Open-cycle systems

RT Thermodynamic cycles

Operation

RT Maintenance
RT Production

Opinion

See Public opinion

Optical

See Optical properties

Optical properties

BT1 Physical properties

Optimization

RT Control
RT Performance testing
RT Planning
RT Profitability

Ordovician

See Ordovician Period

Ordovician Period

BT1 Paleozoic Era
BT2 Geologic times

Oregon

BT1 USA
 BT2 North America
NT1 Klamath Falls KGRA
RT Coast ranges

Organic

See Organic compounds
See Organic matter
See Solid wastes

Organic compounds

NT1 Hydrocarbons
NT1 Methylene blue
RT Organic matter

Organic materials

Use Organic matter

Organic matter

NT1 Vitrimite
RT Organic compounds
RT Solid wastes

Organisms

See Aquatic organisms

Organizations

See National government
See National organizations
See US organizations

Origin

Orthoclase

BT1 Feldspars
BT2 Silicate minerals

Osmosis

RT Diffusion
RT Mass transfer
RT Osmotic pressure
RT Permeability
RT Semipermeable membranes

Osmotic

See Osmosis
See Semipermeable membranes
See Thermodynamics

Osmotic pressure
 RT Osmosis
 RT Semipermeable membranes
 RT Thermodynamics

Overburden
 RT Earth mantle
 RT Formation thickness
 RT Geostatic pressure
 RT Rock mechanics
 RT Strata

Overdraft
 RT Artificial recharge
 RT Fluid withdrawal
 RT Ground water
 RT Ground water recharge
 RT Natural recharge

Overpressure
 Use Geopressure

Overpressured
 See Geopressured reservoirs

Overpressured reservoirs
 Use Geopressured reservoirs

Overturnd
 See Overturnd folds

Overturnd folds
 BT1 Folds
 BT2 Geologic structures

Ownership
 NT1 Mineral rights
 RT Industry
 RT Investment
 RT Land leasing
 RT Land use
 RT Legal aspects
 RT Management
 RT Mineral resources

Oxidation
 BT1 Redox reactions
 BT2 Chemical reactions
 RT Redox potential
 Also see Redox potential

Oxidation-reduction potential
 Use Redox potential

Oxide
 See Oxide minerals

Oxide minerals
 BT1 Minerals
 NT1 Gibbsite
 NT1 Hematite
 RT Oxides

Oxides
 BT1 Oxygen inorganic compounds
 NT1 Iron oxides
 RT Oxide minerals
 Also see Iron oxides

Oxygen
 BT1 Nonmetals
 BT2 Elements
 RT Dissolved gases
 Also see Oxygen inorganic compounds

Oxygen inorganic compounds
 NT1 Carbon dioxide
 NT1 Carbonates
 NT1 Oxides
 NT1 Sulfates

P waves
 Use Seismic p waves

Pacific
 See Pacific Ocean

Pacific Ocean
 BT1 Seas
 BT2 Surface waters
 NT1 South China Sea

Packing
 See Gravel packing
 See Slurry packing

Pakistan
 BT1 Asia
 BT2 Continents

Paleocene
 See Paleocene Epoch

Paleocene Epoch
 BT1 Tertiary Period
 BT2 Cenozoic Era

Geopressured Geothermal Bibliography

Paleoecology

RT Biostratigraphy
RT Depositional environment
RT Ecology
RT Environment
RT Paleontology

Paleomagnetism

RT Geophysics

Paleontology

RT Biostratigraphy
RT Foraminifera
RT Geochronology
RT Geology
RT Paleoecology
RT Protozoa
RT Sedimentology
RT Stratigraphy

Paleopressure

RT Geopressure

Paleozoic

See Paleozoic Era

Paleozoic Era

BT1 Geologic times
NT1 Cambrian Period
NT1 Carboniferous Periods
NT1 Devonian Period
NT1 Ordovician Period
NT1 Permian Period
NT1 Silurian Period

Paper

RT Paper industry

Paper industry

BT1 Industry
RT Paper

Parish

Also see Acadia Parish
Also see Calcasieu Parish
Also see Cameron Parish
Also see Iberia Parish
Also see Jefferson Davis
Parish
Also see Lafayette Parish
Also see St Mary Parish
Also see Vermillion Parish

Park

See Yellowstone National Park

Particles

RT Sedimentation

Pascals

See High pressure
See Low pressure
See Standard pressure

Paso

See El Paso County

Patents

BT1 Document types
RT Legal aspects
RT Licensing
RT Royalties
RT Specifications

Pecos

See Texas

Pegmatite

BT1 Intrusive rocks
BT2 Igneous rocks

Penetration

See Drilling rate
See Injection rates

Penetration rate

Use Drilling rate

Penetrators

NT1 Earth penetrators
NT1 Subterrene penetrators
Also see Rock drilling
Also see Well drilling

Pennsylvanian

See Pennsylvanian Period

Pennsylvanian Period

BT1 Carboniferous Periods
BT2 Paleozoic Era

Pentane

BT1 Alkanes
BT2 Hydrocarbons

Percent

See Net sand maps
See Sand percent maps

Performance

RT Comparative evaluations
 RT Efficiency
 RT Feasibility studies
 RT Performance testing
 RT Reliability
 Also see Inspection
 Also see Materials testing
 Also see Performance testing
 Also see Productivity

Performance testing

BT1 Testing
 RT Efficiency
 RT Inspection
 RT Materials testing
 RT Optimization
 RT Performance
 RT Production testing
 RT Productivity
 RT Reliability
 RT Well testing

Period

See Cambrian Period
 See Cretaceous Period
 See Devonian Period
 See Jurassic Period
 See Mississippian Period
 See Ordovician Period
 See Pennsylvanian Period
 See Permian Period
 See Quaternary Period
 See Silurian Period
 See Tertiary Period
 See Triassic Period

Periods

See Carboniferous Periods

Permafrost

BT1 Soils
 RT Frost

Permeability

BT1 Physical properties
 RT Acidization
 RT Electrodialysis
 RT Formation damage
 RT Free water
 RT Hydraulic conductivity
 RT Leakage
 RT Lost circulation
 RT Osmosis
 RT Porosity
 RT Production rate
 RT Rock properties
 RT Semipermeable membranes
 Also see Acidization
 Also see Aquifers
 Also see Permeability barriers
 Also see Plugging
 Also see Stratigraphic traps
 Also see Well stimulation

Permeability barriers

BT1 Geologic structures

Permeability restoration

RT Acidization
 RT Aquifers
 RT Plugging
 RT Well stimulation

Permian

See Permian Period

Permian Period

BT1 Paleozoic Era
 BT2 Geologic times

Permits

Use Licensing

Personnel

RT Management
 RT Safety
 RT Working conditions

Petrochemical plants

BT1 Industrial plants

Geopressured Geothermal Bibliography

Petroleum

BT1 Fossil fuels
BT2 Fuels
RT Drilling rigs
RT Hydrocarbons
RT Oil fields
RT Oil wells
RT Petroleum deposits
RT Petroleum exploration
RT Petroleum industry
Also see Anticlines
Also see Exploitation
Also see Geophysical surveys
Also see Petroleum deposits
Also see Petroleum exploration
Also see Petroleum industry
Also see Resources
Also see Salt domes
Also see Stratigraphic traps
Also see Structural traps
Also see Traps

Petroleum deposits

BT1 Geologic deposits
BT1 Reserves
NT1 Oil fields
RT Anticlines
RT Geophysical surveys
RT Petroleum geology
RT Petroleum
RT Petroleum industry
RT Resources
RT Salt domes
RT Stratigraphic traps
RT Structural traps
RT Traps
RT Well logging equipment

Petroleum exploration

BT1 Exploration
RT Petroleum
RT Petroleum industry

Petroleum geology

BT1 Geology
BT2 Economic geology
RT Engineering geology
RT Exploration
RT Geochemical prospectus
RT Natural gas deposits
RT Petroleum deposits
RT Petroleum industry
RT Petrology
RT Reservoir engineering
RT Stratigraphy
RT Well logging

Petroleum industry

BT1 Industry
RT Exploitation
RT Petroleum geology
RT Petroleum
RT Petroleum deposits
RT Petroleum exploration

Petrology

BT1 Geology
NT1 Sedimentary petrology
RT Igneous rocks
RT Lithology
RT Metamorphic rocks
RT Petroleum geology

Ph

See Aqueous solutions
See Chemical reactions
See Ph adjustment
See Ph value

Ph adjustment

RT Acidization
RT Brine treatment
RT Ph dependence
RT Ph value

Ph dependence

RT Chemical reactions
RT Ph adjustment
RT Ph value

Ph value

BT1 Chemical properties
RT Aqueous solutions
RT Chemical composition
RT Ph adjustment
RT Ph dependence

Phanerite

Use Phaneritic rocks

Phaneritic

See Phaneritic rocks

Phaneritic rocks

BT1 Igneous rocks
BT2 Rocks

Phase

See Flashing
See Liquid flow
See Phase transformations
See Two phase flow

Phase transformations

NT1 Boiling
 NT1 Evaporation
 NT1 Melting

Philippines

BT1 Asia

Phosphorus

BT1 Nonmetals
 BT2 Elements

Photographs

RT Diagrams

Photometry

See Emission spectroscopy

Phreatic

See Ground water

Phreatic water

Use Ground water

Physical

See Physical properties
 See Surface properties

Physical properties

NT1 Density
 NT1 Electrical properties
 NT1 Fluid properties
 NT1 Freezing potential
 NT1 Hydraulic conductivity
 NT1 Mud weight
 NT1 Optical properties
 NT1 Permeability
 NT1 Porosity
 NT1 Rock properties
 NT1 Rock drillability
 NT1 Thermodynamic properties
 NT1 Volume
 RT Chemical properties
 RT Hydrologic properties
 RT Pressure measurement
 RT Surface properties
 RT Temperature measurement

Physiography

Use Geomorphology

Piestic

See Artesian water

Piestic water

Use Artesian water

Piezometers

BT1 Measuring instruments
 RT Compressibility
 RT Piezometry

Piezometry

BT1 Measuring methods
 RT Piezometers
 RT Pressure measurement

Pilot

See Industrial plants
 See Pilot plants

Pilot plants

BT1 Functional models
 BT2 Models
 RT Demonstration plants
 RT Industrial plants

Pipe

See Nozzles
 See Pipes

Pipe fittings

RT Nozzles
 RT Pipes
 RT Seals

Pipelines

RT Archaeological sites
 RT Pipes

Pipes

NT1 Drill pipes
 NT1 Transfer pipes
 RT Pipe fittings
 RT Pipelines
 RT Well casings
 Also see Drill pipes
 Also see Drills
 Also see Transfer pipes

Pitting

See Pitting corrosion

Pitting corrosion

BT1 Corrosion
 BT2 Chemical reactions
 RT Cavitation
 RT Corrosion resistant alloys

Geopressured Geothermal Bibliography

Plagioclases

BT1 Feldspars
BT2 Silicate minerals
NT1 Albite
NT1 Andesine

Plain

See Gulf Coast
See Nagaoka Plain

Planet

See Continental crust
See Earth atmosphere
See Earth core
See Earth crust
See Earth mantle
See Earth movements
See Earth planet
See Earth planetary structure
See Geography
See Geophysics
See Oceanography
See Topography

Planetary

See Earth planetary structure

Plankton

BT1 Aquatic organisms
BT2 Animals
BT2 Plants
RT Bacteria
RT Surface waters

Planning

RT Allocations
RT Construction
RT Demonstration programs
RT Design
RT Feasibility studies
RT Optimization
RT Production
RT Research programs
RT Site selection
RT Zoning

Plants

BT1 Biomass
NT1 Aquatic organisms
NT1 Sugar cane
RT Agriculture
RT Biology
RT Crops
Also see Combined cycle power plants
Also see District heating
Also see Fossil fuel power plants
Also see Gas turbine power plants
Also see Geothermal energy conversion
Also see Hydroelectric power plants
Also see Industrial plants
Also see Nuclear power plants
Also see Ocean thermal power plants
Also see Pilot plants
Also see Power generation
Also see Power plants
Also see Solar power plants
Also see Space heating
Also see Steam power plants
Also see Steam turbine power generation
Also see Thermal power plants
Also see Tidal power plants
Also see Wind power plants

Plants (industrial)

Use Industrial plants

Plants (power)

Use Power plants

Plasticity

BT1 Mechanical properties
RT Deformation

Plate

See Earth crust
See Plate tectonics
See Rift valleys
See Volcanism

Plate tectonics
 BT1 Tectonics
 BT2 Geology
 RT Benioff zones
 RT Continental drift
 RT Convection cells
 RT Earth crust
 RT Rift valleys
 RT Sea floor spreading
 RT Volcanism

Platinum
 BT1 Transition elements
 BT2 Metals

Pleasant Bayou No. 1 Well
 BT1 Texas
 BT2 USA
 BT3 North America

Pleasant Bayou No. 2 Well
 BT1 Texas
 BT2 USA
 BT3 North America

Pleistocene
 See Pleistocene Epoch

Pleistocene Epoch
 BT1 Quaternary Period
 BT2 Cenozoic Era

Pliocene
 See Pliocene Epoch

Pliocene Epoch
 BT1 Tertiary Period
 BT2 Cenozoic Era

Plugging
 RT Formation damage
 RT Fouling
 RT Permeability restoration
 RT Reaming
 RT Reservoir rocks
 RT Scaling
 RT Suspended solids
 RT Well stimulation

Plutonic
 See Intrusive rocks
 See Juvenile water
 See Plutonic rocks

Plutonic rocks
 BT1 Rocks
 RT Intrusive rocks

Plutonic water
 Use Juvenile water

Plutonium
 BT1 Actinides
 BT2 Metals

Plutons
 Use Igneous intrusions

Point
 See Melting point

Polar
 See Climates
 See Polar regions

Polar regions
 NT1 Arctic regions
 RT Climates

Policies
 See Government policies

Policy
 Also see Allocations
 Also see Economics
 Also see Energy policy
 Also see Environmental policy
 Also see Forecasting
 Also see Government policies
 Use Economic policy

Geopressured Geothermal Bibliography

Pollution

NT1 Air pollution
NT1 Land pollution
NT1 Noise pollution
NT1 Thermal pollution
NT1 Water pollution
RT Aquifer rehabilitation
RT Chemical effluents
RT Environment
RT Pollution law
RT Pollution regulations
RT Pollution control equipment
RT Wastes
Also see Air pollution abatement
Also see Air pollution control
Also see Air pollution monitors
Also see Environmental impact statements
Also see Gaseous wastes
Also see Government policies
Also see Land pollution abatement
Also see Land pollution control
Also see Noise pollution abatement
Also see Noise pollution control
Also see Pollution control equipment
Also see Pollution control
Also see Pollution law
Also see Pollution regulations
Also see Scrubbers
Also see Temperature effects
Also see Waste heat
Also see Water pollution abatement
Also see Water pollution control

Pollution control

BT1 Control
NT1 Air pollution control
NT1 Land pollution control
NT1 Noise pollution control
NT1 Water pollution control
RT Pollution control equipment

Pollution control equipment

BT1 Equipment
NT1 Scrubbers
RT Air pollution abatement
RT Pollution
RT Pollution control
RT Water pollution abatement

Pollution law

BT1 Laws
RT Environmental impact statements
RT Government policies
RT Pollution
RT Pollution regulations

Pollution regulations

BT1 Regulations
RT Pollution
RT Pollution law

Polonium

BT1 Metals
BT2 Elements

Polymerization

BT1 Chemical reactions
RT Polymers

Polymers

NT1 Elastomers
RT Polymerization

Ponds

See Cooling
See Cooling ponds
See Cooling systems
See Lakes

Pools

See Swimming pools

Populations

NT1 Human populations
RT Biosphere
RT Communities
RT Ecosystems
RT Environment
Also see Demography
Also see Rural populations
Also see Sociology
Also see Socio-economic factors
Also see Urban populations

Pore
 See Interstitial water
 See Pore pressure
 See Reservoir pressure

Pore fluid
 Use Interstitial water

Pore fluid pressure
 Use Reservoir pressure

Pore pressure
 BT1 Hydrostatic pressure
 BT2 Hydropressure
 RT Capillary pressure
 RT Interstitial water

Pore water
 Use Interstitial water

Porosity
 BT1 Physical properties
 RT Chemisorption
 RT Compaction
 RT Isoporosity maps
 RT Leakage
 RT Lost circulation
 RT Permeability
 RT Porosity trends
 RT Porous media
 RT Rock properties

Porosity trends
 BT1 Trends
 RT Isoporosity map
 RT Porosity

Porous
 See Porosity
 See Semipermeable membranes

Porous media
 RT Hydraulic conductivity
 RT Porosity
 RT Semipermeable membranes

Porphyritic
 See Porphyritic rocks

Porphyritic rocks
 BT1 Igneous rocks
 BT2 Rocks

Porphyry
 Use Porphyritic rocks

Possibilities
 RT Forecasting

Post
 See Burial

Post depositional process
 Use Burial

Potable
 See Drinking water

Potable water
 Use Drinking water

Potassium
 BT1 Alkali metals
 BT2 Metals

Potential
 See Electric potential
 See Electric power
 See Freezing potential
 See Kinetic energy
 See Oxidation
 See Potential energy
 See Power potential
 See Redox potential
 See Redox reactions
 See Reduction
 See Self potential surveys
 See Sp logging

Potential energy
 BT1 Energy
 RT Energy recovery
 RT Kinetic energy

Geopressured Geothermal Bibliography

Power

NT1 Electric power
RT Power range 100-1000gw
RT Power range 100-1000kw
RT Power range 100-1000mw
RT Power range 10-100gw
RT Power range 10-100mw
RT Power range 10-100kw
RT Power range 1-10gw
RT Power range 1-10kw
RT Power range 1-10mw
Also see Binary cycle power generation
Also see Brayton cycle
Also see Combined cycle power plants
Also see Combined cycle power generation
Also see Electric power
Also see Electric power industry
Also see Fossil fuel power plants
Also see Gas turbine power plants
Also see Gas turbine power generation
Also see Geothermal power plants
Also see Geothermal energy conversion
Also see Hydroelectric power plants
Also see Nuclear energy
Also see Nuclear power plants
Also see Ocean thermal power plants
Also see Power generation
Also see Power plants
Also see Power potential
Also see Public utilities
Also see Rankine cycle
Also see Solar power plants
Also see Steam power plants
Also see Steam turbine power generation
Also see Thermal power plants
Also see Thermodynamic cycles
Also see Tidal power
Also see Tidal power plants
Also see Wind energy
Also see Wind power plants

Power cycles

Use Thermodynamic cycles

Power generation

NT1 Binary cycle power generation
NT1 Co-generation
NT1 Combined cycle power generation
NT1 Gas turbine power generation
NT1 Steam turbine power generation
RT Brayton cycle power systems
RT Electric generators
RT Electric power
RT Geothermal energy conversion
RT Power plants
RT Public utilities
RT Rankine cycle power systems
RT Thermodynamic cycles

Power plants

NT1 Hydroelectric power plants
NT1 Solar power plants
NT1 Thermal power plants
NT1 Tidal power plants
NT1 Wind power plants
RT Cooling towers
RT Electric power
RT Electric power industry
RT Power generation

Power potential

RT Electric power

Power production

Use Power generation

Power range 1-10gw

RT Power

Power range 1-10kw

RT Power

Power range 1-10mw

RT Power

Power range 10-100gw

RT Power

Power range 100-1000gw

RT Power

Power transmission
 RT Electric power

Precambrian
 See Precambrian Eras

Precambrian Eras
 BT1 Geologic times

Precipitated
 See Evaporites

Precipitation
 BT1 Separation processes
 RT Crystallization
 RT Deposition
 RT Evaporites
 RT Ion exchange
 RT Saturation
 RT Solubility
 RT Supersaturation

Precipitations
 See Atmospheric precipitations

Precipitations (atmospheric)
 Use Atmospheric precipitations

Prediction
 Use Forecasting

Preparation
 See Site selection

Presidio
 See Presidio County

Presidio County
 BT1 Texas
 BT2 Gulf Coast

Pressure
 See Artesian pressure
 See Back pressure
 See Bottom hole pressure
 See Differential pressure
 See Elevated pressure
 See Flow rate
 See Fluid flow
 See Fluid pressure
 See Geopressure
 See Geopressured reservoirs
 See Geostatic pressure
 See Hazards
 See High pressure
 See Hydrodynamic pressure
 See Hydrostatic pressure
 See Injection rates
 See Injection wells
 See Interstitial water
 See Isopiestic measurement
 See Kicks
 See Low pressure
 See Measuring instruments
 See Moderate pressure
 See Osmosis
 See Physical properties
 See Pore pressure
 See Pressure buildup
 See Pressure control
 See Pressure decline
 See Pressure drop
 See Pressure gages
 See Pressure gradients
 See Pressure measurement
 See Pressure release
 See Reservoir pressure
 See Semipermeable membranes
 See Standard pressure
 See Subnormal formation pressure
 See Thermodynamics
 See Vapor pressure
 See Volatility
 See Well head pressure
 See Wells

Pressure (< 1.0 E05 newton/sq m)
 Use Standard pressure

Pressure (< 1.02 kg/sq m)
 Use Low pressure

Pressure (< 1.45 E01 psi)
 Use Low pressure

Geopressured Geothermal Bibliography

Pressure (> 5.0 E07 newton/sq m) Use High pressure	Pressure (1.01 E07-5.0 E07 pascals) Use Moderate pressure
Pressure (> 5.1 E02 kg/sq m) Use High pressure	Pressure (1.02 kg/sq m) Use Standard pressure
Pressure (> 7.25 E04 psi) Use High pressure	Pressure (1.02-1.02 E02 kg/sq m) Use Moderate pressure
Pressure (<1 bar) Use Low pressure	Pressure (1.03-5.1 E02 kg/sq m) Use Elevated pressure
Pressure (>500 bar) Use High pressure	Pressure (1.45 E01 psi) Use Standard pressure
Pressure (back) Use Back pressure	Pressure (1.45 E01-1.45 E03 psi) Use Moderate pressure
Pressure (bottom hole) Use Bottom hole pressure	Pressure (1.465 E03-7.252 E04 psi) Use Elevated pressure
Pressure (differential) Use Differential pressure	Pressure (1-100 bar) Use Moderate pressure
Pressure (fluid) Use Fluid pressure	Pressure (101-500 bar) Use Elevated pressure
Pressure (geostatic) Use Geostatic pressure	Pressure buildup
Pressure (pore) Use Pore pressure	Pressure control BT1 Control RT Isopiestic measurement RT Pressure measurement
Pressure (vapor) Use Vapor pressure	Pressure decline RT Drawdown RT Time dependence
Pressure (well head) Use Well head pressure	Pressure dependence RT Elevated pressure RT High pressure RT Isopiestic measurement RT Low pressure RT Moderate pressure RT Standard pressure
Pressure (1 bar) Use Standard pressure	Pressure drawdown Use Pressure decline
Pressure (1.0 E04-5.0 E07 Newton/SQ M) Use Elevated pressure	
Pressure (1.0 E05 newton/sq m) Use Standard pressure	
Pressure (1.0 E05 pascals) Use Standard pressure	
Pressure (1.0 E05-1.0 E07 pascals) Use Elevated pressure	

Pressure drop
 RT Flow rate
 RT Fluid flow
 RT Isopiestic measurement
 RT Pressure gradients
 RT Pressure release

Pressure gages
 BT1 Measuring instruments
 RT Pressure measurement

Pressure gradients
 NT1 Geopressure gradients
 RT Differential pressure
 RT Isopiestic measurement
 RT Pressure drop
 RT Pressure measurement

Pressure kicks
 Use Kicks

Pressure measurement
 BT1 Measurement
 RT Bottom hole pressure
 RT Isopiestic measurement
 RT Measuring instruments
 RT Physical properties
 RT Piezometry
 RT Pressure control
 RT Pressure gages
 RT Pressure gradients

Pressure release
 RT Blowouts
 RT Hazards
 RT Isopiestic measurement
 RT Pressure drop

Pressure seals

Preventers
 See Blowout preventers
 See Blowouts
 See Natural gas wells
 See Oil wells

Prices
 Use Charges

Prieto
 See Cerro Prieto Geothermal Field
 See Hot water systems

Proceedings
 BT1 Document types
 RT Meetings

Process
 See Burial
 See Direct energy utilization
 See Frasch sulfur process
 See Industrial heating
 See Process heat

Process heat
 BT1 Heat
 BT2 Energy
 RT Direct energy utilization
 RT Industrial heating

Processes
 See Geologic processes
 See Recovery processes
 See Refining
 See Separation processes

Processing
 NT1 Data processing
 NT1 Refining
 NT1 Waste processing
 Also see Computers
 Also see Data
 Also see Data analysis
 Also see Liquid wastes
 Also see Radioactive wastes
 Also see Recovery processes
 Also see Scrubbers
 Also see Waste processing

Producing
 See Producing wells

Producing wells
 BT1 Wells

Production
 NT1 Gas production
 NT1 Mineral production
 NT1 Oil production
 NT1 Sand production
 NT1 Water production
 RT Operation
 RT Planning
 RT Production rate
 RT Productivity
 Also see Power generation
 Also see Production logging

Production decline curve
 BT1 Graphs
 RT Well data
 See Decline curve analysis
 See Production decline rate

Geopressured Geothermal Bibliography

Production logging

BT1 Well logging

Production rate

BT1 Rates

RT Permeability

RT Production

RT Productivity

RT Production testing

RT Reservoir pressure

RT Well testing

Production testing

BT1 Well testing

BT2 Testing

RT Gas production

RT Performance testing

RT Productivity

RT Production rate

RT Water production

Productivity

RT Efficiency

RT Energy yield

RT Feasibility studies

RT Net energy

RT Performance testing

RT Production rater

RT Production testing

RT Production

Products

See Anthropogenic occurrence

See Corrosion

See Corrosion monitoring

See Desalination

See Economics

See Industry

See Recovery processes

Profitability

RT Evaluation

RT Financial incentives

RT Income

RT Investment

RT Optimization

See Rate of Return

Profits

RT Charges

RT Economics

RT Income

Programming

RT Computer codes

RT Computers

Programs

See Commercialization

See Computer codes

See Information needs

See Planning

See Research programs

See Reviews

Programs (computer)

Use Computer codes

Programs (research)

Use Research programs

Propagation

See Wave propagation

Propagation (wave)

Use Wave propagation

Propane

BT1 Alkanes

BT2 Hydrocarbons

Properties

See Chemical properties

See Elasticity

See Electrical properties

See Engineering

See Fracture properties

See Geopressured reservoirs

See Mechanical properties

See Optical properties

See Reservoir engineering

See Reservoir properties

See Rheology

See Rock properties

See Shear properties

See Strains

See Stresses

See Surface properties

See Tensile properties

See Thermodynamic properties

See Well characteristics

Prospecting

Also see Aerial surveys

Use Exploration

Protection

See Corrosion

See Corrosion monitoring

See Corrosion protection

See Crevice corrosion

See US EPA

Protozoa
 BT1 Microorganisms
 BT1 Invertebrates
 BT2 Animals
 NT1 Foraminifera
 RT Paleontology

Provinces
 See Geologic provinces

Psi
 See High pressure
 See Low pressure
 See Standard pressure

Public
 See Human populations
 See KGRAs
 See Land leasing
 See Management
 See Natural gas
 See Power generation
 See Public buildings
 See Public health
 See Public lands
 See Public opinion
 See Public utilities
 See Reserves
 See Sociology

Public attitudes
 Use Public opinion

Public buildings
 BT1 Buildings
 RT Federal buildings

Public health
 RT Communities
 RT Human populations

Public lands
 NT1 Yellowstone National Park
 RT KGRAs
 RT Land leasing
 RT Land use
 RT Recreational facilities
 RT Reserves

Public opinion
 RT Public relations

Public relations
 RT Management
 RT Public opinion
 RT Sociology

Public utilities
 RT Electric power
 RT Natural gas
 RT Power generation

Pumice
 BT1 Pyroclastic rocks
 BT2 Extrusive rocks

Pump
 See Aquifer tests

Pump tests
 Use Aquifer tests

Pumping
 RT Dewatering
 RT Wells

Pumps
 NT1 Downhole pumps
 NT1 Injection pumps
 RT Compressors
 RT Gas ejectors
 Also see Injection pumps
 Also see Well design

Purification
 See Water treatment

Pyrite
 BT1 Sulfide minerals
 BT2 Minerals

Pyrites
 Also see Chalcopyrite
 Also see Pyrite
 Use Sulfide minerals

Pyroclastic
 See Pyroclastic rocks
 See Volcanism

Pyroclastic rocks
 BT1 Extrusive rocks
 BT2 Igneous rocks
 NT1 Obsidian
 NT1 Pumice
 NT1 Tuff
 RT Volcanism

Pyrophyllite
 BT1 Silicate minerals
 BT2 Minerals

Geopressured Geothermal Bibliography

Pyroxenes

BT1 Silicate minerals
BT2 Minerals

Qualitative

See Chemical analysis
methods
See Chemical composition
See Chemistry
See Gas analysis
See Measuring methods
See Qualitative chemical
analysis

Qualitative chemical analysis

BT1 Chemical analysis
BT2 Analysis
RT Chemical analysis methods
RT Chemical composition
RT Chemistry
RT Gas analysis
RT Measuring methods

Quality

See Air
See Air pollution
See Drinking water
See Water
See Water pollution
See Water quality
See Water treatment

Quantitative

See Chemical analysis
methods
See Chemical composition
See Chemistry
See Gas analysis
See Gas chromatography
See Measuring methods
See Quantitative chemical
analysis

Quantitative chemical analysis

BT1 Chemical analysis
BT2 Analysis
RT Chemical analysis methods
RT Chemical composition
RT Chemistry
RT Gas analysis
RT Gas chromatography
RT Measuring methods

Quartz

BT1 Silica minerals
BT2 Minerals
RT Sandstone
RT Siltstone

Quaternary

See Quaternary Period

Quaternary Period

BT1 Cenozoic Era
BT2 Geologic times
NT1 Pleistocene Epoch
NT1 Recent Epoch

Queen

See Louisiana
See Texas

Queen City Formation

RT Louisiana
RT Texas

Radiation

See Electromagnetic
radiation
See Gamma radiation
See Gamma ray logging
See Gamma spectroscopy

Radiators

RT Heating

Radioactive

See Radioactive wastes

Radioactive wastes

BT1 Wastes
RT Contamination
RT Salt deposits
RT Waste disposal
RT Waste management
RT Waste processing

Radioactivity

RT Contamination
Also see Radioactivity
logging
Also see Radioactivity
surveys

Radioactivity logging

BT1 Well logging
NT1 Gamma-Gamma logging
NT1 Gamma ray logging
NT1 Neutron logging

Radioactivity surveys
 BT1 Geophysical surveys
 BT2 Exploration methods
 NT1 Gamma ray surveys

Radiometric
 See Radiometric surveys

Radiometric surveys
 BT1 Geophysical surveys
 BT2 Exploration methods

Radium
 BT1 Alkaline earth metals
 BT2 Metals

Radon
 BT1 Rare gases
 BT2 Nonmetals

Raft
 See Raft River KGRA

Raft River
 See Raft River KGRA

Raft River KGRA
 BT1 KGRAs
 BT1 Idaho
 BT2 USA
 BT3 North America
 RT Geothermal fields

Rain
 BT1 Atmospheric precipitations
 BT2 Meteorology
 RT Rain water
 RT Snow
 RT Storms
 Also see Rain water

Rain water
 BT1 Water
 RT Rain
 RT Water resources

Range
 See Power

Ranges
 See California
 See Coast ranges
 See Oregon

Rankin
 See Rankin County

Rankin County
 BT1 Mississippi
 BT2 Gulf Coast

Rankine
 See Power generation
 See Rankine cycle
 See Steam turbine power generation

Rankine cycle
 BT1 Thermodynamic cycles
 RT Rankine cycle power systems
 RT Steam turbine power generation

Rankine cycle power systems
 RT Power generation
 RT Rankine cycle

Rare
 See Rare earths
 See Rare gases

Rare earths
 BT1 Metals
 BT2 Elements
 NT1 Europium
 NT1 Samarium

Rare gases
 BT1 Nonmetals
 BT2 Elements
 NT1 Argon
 NT1 Helium
 NT1 Krypton
 NT1 Neon
 NT1 Radon
 NT1 Xenon

Rate
 See Accumulation rate
 See Circulating rate
 See Drilling rate
 See Flow rate
 See Injection rates
 See Strain rate
 See Strains
 See Tensile properties

Geopressured Geothermal Bibliography

Rates

NT1 Accumulation rate
NT1 Drilling rate
NT1 Flow rate
NT1 Injection rates
NT1 Production rate
NT1 Strain rate
RT Velocity
Also see Energy consumption
Also see Injection wells

Ratio

See Facies maps

Ray

See Gamma ray logging
See Gamma ray surveys
See Gamma spectroscopy

Rayleigh

See Rayleigh waves

Rayleigh waves

BT1 Seismic waves

Reaction

See Reaction heat

Reaction heat

BT1 Enthalpy
BT2 Thermodynamic properties
NT1 Formation heat

Reactions

See Chemical equilibrium
See Chemical properties
See Chemical reactions
See Redox reactions

Reactions (chemical)

Use Chemical reactions

Reaming

RT Plugging
RT Well drilling

Recent

See Recent Epoch

Recent Epoch

BT1 Quaternary Period
BT2 Cenozoic Era

Recharge

Also see Hydrology
Also see Injection wells
Also see Overdraft
Use Artificial recharge
Use Ground water recharge
Use Natural recharge

Recharge wells

Use Injection wells

Reclamation

See Land pollution abatement
See Land pollution control
See Land reclamation
See US Bureau of Reclamation

Reclamation (land)

Use Land reclamation

Recluse

See Recluse Field

Recluse Field

BT1 Wyoming
BT2 Gulf Coast

Recommendations

RT Agreements
RT Compliance
RT Legal aspects
RT Licensing
RT Manuals
RT Regulatory guides

Recommendations

RT Inspection
RT Regulations
RT Safety standards

Recording

See Data acquisition systems
See Measuring instruments
See Well logging

Recording systems

RT Data acquisition systems
RT Measuring instruments
RT Well logging

Recovery

See Materials recovery
See Materials recovery
See Minerals
See Recovery processes
See Water production

Recovery processes

NT1 Frasch sulfur process
 RT By-products
 RT Desulfurization
 RT Mineral recovery
 RT Waste management
 RT Waste processing
 RT Wastes

Recreational

See Public lands

Recreational facilities

RT Public lands

Redox

See Oxidation
 See Redox potential
 See Redox reactions
 See Reduction

Redox potential

RT Oxidation
 RT Redox reactions
 RT Reduction

Redox reactions

BT1 Chemical reactions
 NT1 Oxidation
 NT1 Reduction
 RT Redox potential

Reduction

BT1 Redox reactions
 BT2 Chemical reactions
 RT Redox potential
 Also see Redox potential

Reentry

RT Oil wells

Refining

BT1 Processing
 RT Separation processes

Reflectance**Reflection**

See Seismic reflection surveys

Refraction

See Seismic reflection surveys
 See Seismic refraction surveys

Refrigeration

See Direct energy utilization
 See Geothermal space heating

Regional

See Ecology
 See Economics
 See Environment
 See Human populations
 See Sociology

Regional analysis

RT Ecology
 RT Economic analysis
 RT Economics
 RT Environment
 RT Human populations
 RT Sociology

Regions

See Arctic regions
 See Climates
 See Coastal waters
 See Geopressured zones
 See Geothermal fields
 See Polar regions
 See Shores
 See Volcanism
 See Volcanoes

Regolith

Use Overburden

Regulations

NT1 Pollution regulations
 NT1 Zoning
 RT Agreements
 RT Compliance
 RT Deregulation
 RT Enforcement
 RT Implementation
 RT Land leasing
 RT Laws
 RT Legal aspects
 RT Legislation
 RT Licensing
 RT Local government
 RT National government
 RT Recommendations
 RT Regulatory guides
 RT Safety standards
 RT Specifications
 RT State government
 Also see Pollution
 Also see Pollution law

Geopressured Geothermal Bibliography

Regulatory

See Recommendations
See Regulations

Regulatory guides

RT Recommendations
RT Regulations

Rehabilitation

See Aquifers

Reinjection

Also see Injection wells
Use Artificial recharge

Reinjection wells

Use Injection wells

Relations

See Management
See Public opinion
See Sociology

Release

See Hazards
See Isopiestic measurement
See Pressure release

Reliability

RT Failures
RT Hazards
RT Performance
RT Performance testing
RT Specifications
RT Systems analysis

Remote

See Aerial surveys
See Infrared surveys
See Remote control

Remote control

BT1 Control
RT Monitoring

Remote sensing

RT Aerial surveys
RT Infrared surveys

Republic

See German Democratic
Republic
See German Federal Republic

Republics

See USSR

Requirements

See Land requirements
See Water
See Water requirements
See Water resources

Requirements (land)

Use Land requirements

Requirements (water)

Use Water requirements

Research

See Information needs
See Planning
See Research programs
See Reviews
See US ERDA

Research programs

RT Demonstration programs
RT Information needs
RT Planning
RT Reviews

Reserves

NT1 Coal reserves
NT1 Energy reserves
NT1 Natural gas deposits
NT1 Petroleum deposits
RT Energy supplies
RT Exploitation
RT Formation testing
RT Geothermal resources
RT Public lands
RT Resources
Also see Availability
Also see Coal

Reservoir

See Bottom hole pressure
See Compaction
See Formation thickness
See Gas saturation
See Geopressured reservoirs
See Hydrostatic pressure
See Plugging
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir rocks
See Reservoir temperature
See Well characteristics
See Well information systems
See Well logging

Reservoir characteristics
Use Reservoir properties

Reservoir compaction
Use Compaction

Reservoir description
RT Well information systems
RT Well logging

Reservoir engineering
BT1 Engineering
NT1 Well stimulation
RT Compaction
RT Formation testing
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Hydraulic fracturing
RT Petroleum geology
RT Reservoir properties
RT Reservoir rocks
RT Water reservoirs
RT Well testing

Reservoir fluids
BT1 Fluids
RT Natural gas fields
RT Oil fields

Reservoir mechanics
Use Reservoir engineering

Reservoir pressure
BT1 Reservoir properties
RT Bottom hole pressure
RT Formation testing
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Hydrostatic pressure
RT Production rate

Reservoir properties
NT1 Reservoir pressure
NT1 Reservoir temperature
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Reservoir engineering
RT Subsurface reservoirs
RT Well characteristics
RT Well data
RT Well interference

Reservoir rock
Use Reservoir rocks

Reservoir rocks
BT1 Rocks
NT1 Carbonate rocks
NT1 Fractured reservoirs
RT Gas saturation
RT Interstitial water
RT Natural gas fields
RT Oil fields
RT Oil saturation
RT Plugging
RT Reservoir engineering
RT Sand
RT Water saturation

Reservoir temperature
BT1 Reservoir properties
BT1 Subsurface temperature
RT Bottom hole temperature
RT Geopressured reservoirs
RT Geothermal reservoirs
RT Temperature logging
RT Well characteristics

Reservoir thickness
Use Formation thickness

Reservoirs
See Aquifers
See Fractured reservoirs
See Fresh water
See Geopressured reservoirs
See Geothermal reservoirs
See Magma
See Magma reservoirs
See Magma systems
See Reservoir engineering
See Reservoir pressure
See Reservoir properties
See Reservoir temperature
See Subsurface reservoirs
See Volcanism
See Water reservoirs

Reservoirs (geothermal)
Use Geothermal reservoirs

Reservoirs (magma)
Use Magma reservoirs

Reservoirs (subsurface)
Use Subsurface reservoirs

Reservoirs (water)
Use Water reservoirs

Residential
See Residential buildings

Geopressured Geothermal Bibliography

Residential buildings

BT1 Buildings
NT1 Apartment buildings
NT1 Houses

Residential structures

Use Residential buildings

Resistance

See Corrosion
See Crevice corrosion
See Stainless steels

Resistant

See Corrosion
See Corrosion resistant alloys
See Pitting corrosion

Resistivity

See Electric conductivity
See Induction logging
See Resistivity logging
See Resistivity surveys

Resistivity exploration

Use Resistivity surveys

Resistivity logging

BT1 Electrical logging
BT2 Well logging
NT1 Laterolog
NT1 Microresistivity logging
RT Electrical surveys
RT Induction logging
RT Sp logging

Resistivity method

Use Resistivity surveys

Resistivity surveys

BT1 Electrical surveys
BT2 Geophysical surveys
RT Induction logging

Resonance

See Nuclear magnetic logging
See Nuclear magnetic resonance

Resource

See Availability
See Energy conservation
See Energy consumption
See Exploration
See Geothermal resources
See KGRAs
See Resource assessment
See Resource conservation
See Resource depletion
See Resources

Resource assessment

Resource availability

Use Availability

Resource conservation

RT Energy conservation
RT Resources

Resource depletion

RT Availability
RT Energy consumption
RT Geothermal resources

Resource development

RT Energy source development
RT Resources

Resource location

Use Exploration

Resource potential

RT Energy source development
RT Exploration
RT Resources

Resources

NT1 Geothermal resources
 NT1 Mineral resources
 NT1 Water resources
 RT Energy supplies
 RT Natural gas deposits
 RT Petroleum deposits
 RT Reserves
 RT Resource development
 RT Resource potential
 RT Resource conservation
 Also see Availability
 Also see Energy resources
 Also see Engineering geology
 Also see Geologic deposits
 Also see Geopressure resources
 Also see Ground water
 Also see KGRAs
 Also see Mineral rights
 Also see Ownership
 Also see Rain water
 Also see Rock mechanics
 Also see Subsurface waters
 Also see Surface waters
 Also see Water
 Also see Water management
 Also see Water reservoirs

Restoration

See Acidization
 See Aquifers
 See Plugging
 See Well stimulation

Results

See Data
 See Document types
 See Experimental results
 See Field studies
 See Graphs
 See Tables
 See Theoretical treatments

Resurgent

See Juvenile water

Resurgent water

Use Juvenile water

Retrieval

See Information needs
 See Information systems

Retrofitting

BT1 Construction
 RT Buildings

Return

See Profits

Return on investment

Use Profits

Revenue

Use Income

Reverse

See Thrust faults

Reverse faults

Use Thrust faults

Reversed

See Overturned folds

Reversed folds

Use Overturned folds

Reviews

BT1 Document types
 RT Research programs

Rheology

RT Creep
 RT Deformation
 RT Fluid flow
 RT Mechanical properties
 RT Viscosity

Rhyolite

BT1 Extrusive rocks
 BT2 Igneous rocks

Ridges

See Rift valleys

Rift

See Colorado
 See Fault systems
 See Faults
 See New Mexico
 See Rift valleys
 See Rio Grande Rift
 See Tectonics

Geopressured Geothermal Bibliography

Rift valleys

BT1 Geologic structures
RT Continental drift
RT Fault systems
RT Fault zones
RT Faults
RT Grabens
RT Imperial Valley
RT Ocean ridges
RT Plate tectonics
RT Rio Grande Rift
RT Tectonics
RT Volcanism

Rights

See Legal aspects
See Mineral rights
See Water resources

Rigs

See Drill pipes
See Drilling
See Drilling equipment
See Drills
See Natural gas
See Petroleum
See Well drilling

Rio

See Colorado
See New Mexico
See Rift valleys
See Rio Grande
See Rio Grande Embayment
See Rio Grande Rift

Rio Grande

BT1 Rivers
BT2 Streams

Rio Grande Embayment

BT1 Texas
BT2 Gulf Coast

Rio Grande Rift

BT1 North America
BT2 Continents
RT Colorado
RT New Mexico
RT Rift valleys
RT Texas

Risk assessment

RT Energy source development

Risks

Use Hazards

River

See Mississippi River
See Raft River KGRA
See USSR
See Volga River

Rivers

BT1 Streams
BT2 Surface waters
NT1 Mississippi River
NT1 Rio Grande
NT1 Volga River
RT Deltas
RT Drainage systems
RT Estuaries

Rock

See Aquifers
See Chemical reactions
See Compaction
See Compressibility
See Drills
See Ground subsidence
See Halite
See Hot dry rock systems
See Hydrothermal alteration
See Hydrothermal systems
See Mechanical properties
See Reservoir rocks
See Rock drilling
See Rock failures
See Rock matrix
See Rock mechanics
See Rock properties
See Rocks
See Salt domes
See Traps

Rock characteristics

Use Rock properties

Rock compaction

Use Compaction

Rock compressibility

Use Compressibility

Rock deformation

BT1 Deformation
 RT Compression
 RT Ground subsidence
 RT Rock drillability
 RT Rock properties
 RT Rock shear
 RT Rock stresses
 RT Structural geology
 RT Tectonics
 See Diapirism
 See Faulting
 See Folding
 See Salt tectonics

Rock drillability

BT1 Rock properties
 BT2 Physical Properties
 RT Rock drilling
 RT Rock mechanics
 RT Rock shear
 RT Rock stresses
 RT Rock deformation
 RT Rock failures
 RT Well drilling

Rock drilling

BT1 Drilling
 RT Boreholes
 RT Drills
 RT Rock drillability
 RT Subterranean penetrators
 RT Well drilling

Rock failures

BT1 Failures
 RT Faults
 RT Rock drillability
 RT Rock mechanics
 RT Rock shear
 RT Rock stress

Rock fluid interactions

RT Chemical reactions
 RT Hydrothermal alteration
 RT Hydrothermal systems
 RT Rocks

Rock matrix**Rock mechanics**

RT Field studies
 RT Geothermal resources
 RT Ground subsidence
 RT Overburden
 RT Rock drillability
 RT Rock shear
 RT Rock stresses
 RT Rock failures
 RT Rock properties
 RT Rocks
 RT Soil mechanics

Rock properties

BT1 Physical properties
 NT1 Rock drillability
 RT Chemical composition
 RT Fracture properties
 RT Hydrologic properties
 RT Mechanical properties
 RT Permeability
 RT Porosity
 RT Rock deformation
 RT Rock stresses
 RT Rock mechanics
 RT Rocks
 RT Sand shale ratio

Rock salt

Use Halite

Rock shear

BT1 Shear
 RT Rock deformation
 RT Rock drillability
 RT Rock mechanics
 RT Rock stress
 RT Rock failures

Rock stresses

BT1 Stresses
 RT Rock deformation
 RT Rock drillability
 RT Rock mechanics
 RT Rock properties
 RT Rock shear
 RT Rock failures
 See Formation stress
 See Rock pressure
 See Well bore stress

Geopressured Geothermal Bibliography

Rocks

NT1 Igneous rocks
NT1 Metamorphic rocks
NT1 Plutonic rocks
NT1 Reservoir rocks
NT1 Sedimentary rocks
RT Cap rock
RT Geological setting
RT Lithification
RT Rock fluid interactions
RT Rock mechanics
RT Rock properties
RT Traps
Also see Aphanitic rocks
Also see Carbonate minerals
Also see Carbonate rocks
Also see Clastic rocks
Also see Dolomite
Also see Dolomite rocks
Also see Evaporites
Also see Extrusive rocks
Also see Gas saturation
Also see Hot dry rock
systems
Also see Intrusive rocks
Also see Nonclastic rocks
Also see Petrology
Also see Phaneritic rocks
Also see Plugging
Also see Porphyritic rocks
Also see Pyroclastic rocks
Also see Sedimentary
petrology
Also see Texas
Also see Volcanism

Rotary

See Rotary drilling

Rotary drilling

BT1 Well drilling
BT2 Drilling

Royalties

RT Cost
RT Income
RT Investment
RT Licensing
RT Patents

Rubidium

BT1 Alkali metals
BT2 Metals

Rural

See Rural populations

Rural areas

RT Rural populations

Rural populations

BT1 Human populations
BT2 Populations
RT Rural areas

S waves

Use Seismic s waves

Safeguards

RT Inspection
RT Legal aspects

Safety

RT Accidents
RT Blowouts
RT Failures
RT Fire hazards
RT Flammability
RT Hazards
RT Health hazards
RT Injuries
RT Personnel
RT Safety engineering
RT Safety standards
RT Working conditions
Also see Legal aspects
Also see Regulations
Also see Safety standards

Safety engineering

RT Safety

Safety standards

BT1 Standards
RT Legal aspects
RT Licensing
RT Recommendations
RT Regulations
RT Safety

Saint

See St Mary Parish

Saint Mary Parish

Use St Mary Parish

Sales

Use Trade

Saline

See Brines
See Saline aquifers
See Salt water
See Waste disposal

Saline aquifers

BT1 Aquifers
 BT2 Subsurface reservoirs
 RT Aquiclude
 RT Brines
 RT Salts
 RT Waste disposal

Saline water

Use Salt water

Salinity

BT1 Chemical properties
 RT Brackish water
 RT Brines
 RT Chemical composition
 RT Corrosion
 RT Desalination
 RT Dissolved solids
 RT Estuaries
 RT Salt water
 RT Salts
 RT Sea water
 RT Solutions

Salt

See Anticlines
 See Halite
 See Radioactive wastes
 See Salinity
 See Salt deposits
 See Salt domes
 See Salt tectonics
 See Salt water
 See Water production

Salt content

Use Salinity

Salt deposits

BT1 Geologic deposits
 NT1 Salt domes
 RT Anticlines
 RT Radioactive wastes
 RT Underground disposal
 RT Waste disposal

Salt domes

BT1 Salt deposits
 BT2 Geologic deposits
 RT Cap rock
 RT Diapirism
 RT Diapirs
 RT Folds
 RT Natural gas deposits
 RT Petroleum deposits
 RT Salt tectonics
 RT Salts

Salt tectonics

BT1 Rock deformation
 BT2 Deformation
 RT Creep
 RT Salt domes
 RT Structural geology

Salt water

BT1 Water
 NT1 Sea water
 RT Brackish water
 RT Brines
 RT Drilling fluids
 RT Fresh water
 RT Salinity
 RT Surface waters

Salt water production

Use Water production

Salton

See Salton Sea

Salton Sea

BT1 Lakes
 BT2 Surface waters
 BT1 Imperial Valley
 BT2 California

Salts

NT1 Dissolved salts
 RT Brines
 RT Desalination
 RT Dissolved solids
 RT Halite
 RT Saline aquifers
 RT Salinity
 RT Salt domes

Salvador

See El Salvador

Samarium

BT1 Rare earths
 BT2 Metals

Geopressured Geothermal Bibliography

Sampling

NT1 Downhole sampling
NT1 Fluid sampling
RT Formation testing
RT Inspection
RT Measuring methods
RT Sampling methods
RT Testing

Sampling methods

RT Sampling

San Andreas Fault

BT1 California
BT2 USA
BT3 North America

San Joaquin

See San Joaquin Valley

San Joaquin Valley

BT1 California
BT2 USA
BT3 North America

Sand

RT Clay
RT Clay minerals
RT Reservoir rocks
RT Sandstone
RT Sediment deposits
Also see Facies maps
Also see Formation thickness
Also see Gravel packing
Also see Net sand maps
Also see Reservoir pressure
Also see Sand percent maps
Also see Sand production
Also see Sand trend maps

Sand control

RT Gravel packing
RT Sand production

Sand percent maps

BT1 Facies maps
BT2 Stratigraphic maps
RT Net sand maps
RT Sand trend maps

Sand pressure

Use Reservoir pressure

Sand production

BT1 Production
RT Sand control
RT Sediments

Sand shale ratio

BT1 Rock composition
BT2 Composition
RT Facies
RT Rock properties
RT Sandstone

Sand thickness

Use Formation thickness

Sand trend maps

BT1 Trend maps
BT2 Stratigraphic maps
RT Facies maps
RT Net sand maps
RT Sand percent maps

Sandstone

BT1 Clastic rocks
BT2 Sedimentary rocks
RT Compaction
RT Interstitial water
RT Quartz
RT Sand shale ratio
RT Sand
RT Sediment deposits
RT Siltstone

Sandstones

Use Sandstone

Saturated

See Liquids
See Saturated vapor
See Vapors

Saturated vapor

RT Liquids
RT Vapors

Saturation

NT1 Gas saturation
RT Chemical composition
RT Chemical equilibrium
RT Precipitation
RT Solubility
RT Solutions
RT Supersaturation
Also see Oil saturation
Also see Reservoir rocks

Scale

See Scale monitoring
See Scaling
See Scaling control

Scale composition

RT Scale monitoring
 RT Scaling
 RT Scaling control

Scale monitoring

BT1 Monitoring
 RT Descaling
 RT Scale composition
 RT Scaling control

Scaling

BT1 Corrosion
 BT2 Chemical reactions
 RT Fouling
 RT Plugging
 RT Scale composition
 RT Scaling control
 RT Stress corrosion
 Also see Scale monitoring
 Also see Scaling control

Scaling control

BT1 Control
 RT Scale composition
 RT Scale monitoring
 RT Scaling

Schist

BT1 Metamorphic rocks
 BT2 Rocks

Schists

Use Schist

Scientific

See LASL

Scrubbers

BT1 Pollution control
 equipment
 BT2 Equipment
 RT Air pollution
 RT Air pollution abatement
 RT Scrubbing
 RT Waste processing

Scrubbing

RT Acidization
 RT Scrubbers
 RT Washing

Sea

See Arabian Sea
 See Caribbean Sea
 See Caspian Sea
 See Earth crust
 See Marine geology
 See North Sea
 See Ocean thermal power
 plants
 See Oceanic crust
 See Plate tectonics
 See Salinity
 See Salton Sea
 See Sea bed
 See Sea floor spreading
 See Sea water
 See Seas
 See Sediments
 See Shores
 See Solutions
 See South China Sea
 See Surface waters
 See USSR

Sea bed

RT Earth crust
 RT Marine geology
 RT Seas
 RT Sediments
 RT Soil mechanics

Sea coast

Use Shores

Sea floor

Use Sea bed

Sea floor spreading

RT Earth crust
 RT Oceanic crust
 RT Plate tectonics
 RT Seas

Sea water

BT1 Salt water
 BT2 Water
 RT Brines
 RT Desalination
 RT Estuaries
 RT Salinity
 RT Seas
 RT Solutions
 RT Surface waters

Seals

RT Pipe fittings

Geopressured Geothermal Bibliography

Seas

BT1 Surface waters
NT1 Atlantic Ocean
NT1 Indian Ocean
NT1 Pacific Ocean
RT Bays
RT Coastal waters
RT Continental slopes
RT Estuaries
RT Marine geology
RT Oceanography
RT Offshore sites
RT Sea bed
RT Sea floor spreading
RT Sea water
RT Shores
RT Tide

Seasonal

See Seasons

Seasonal variations

RT Seasons

Seasons

RT Atmospheric precipitations
RT Climates
RT Meteorology
RT Seasonal variations
RT Weather

Sections

See Geologic cross sections
See Geologic structures

Sediment

See Sediment deposits

Sediment deposits

BT1 Sediments
NT1 Alluvial deposits
RT Alluvium
RT Deltas
RT Geologic deposits
RT Mudstone
RT Sand
RT Sandstone
RT Sedimentation
RT Sedimentology
RT Siltstone

Sedimentary

See Geologic structures
See Sedimentary basins
See Sedimentary petrology
See Sedimentary rocks
See Sedimentation
See Sedimentology
See Sediments
See Stratigraphy

Sedimentary basins

BT1 Basins
BT2 Geologic structures
RT Sediments
RT Stratigraphy

Sedimentary petrology

BT1 Petrology
BT2 Geology
RT Deposition
RT Sedimentary rocks
RT Sedimentary structures
RT Sedimentation
RT Sedimentology
RT Stratigraphy

Sedimentary rocks

BT1 Rocks
NT1 Clastic rocks
NT1 Limestone
NT1 Nonclastic rocks
RT Argillaceous rocks
RT Carbonate rocks
RT Lithification
RT Lithology
RT Sedimentary petrology
RT Sedimentology

Sedimentary structures

RT Geologic structures
RT Sedimentary petrology
RT Sedimentation
RT Sedimentology
RT Sediments
RT Stratigraphy

Sedimentation

BT1 Geologic processes
 RT Accumulation rate
 RT Burial
 RT Deltas
 RT Deposition
 RT Depositional environment
 RT Particles
 RT Sediment deposits
 RT Sedimentary petrology
 RT Sedimentary structures
 RT Sediments

Sedimentation rate

Use Accumulation rate

Sedimentology

BT1 Geology
 RT Lithification
 RT Paleontology
 RT Sediment deposits
 RT Sedimentary petrology
 RT Sedimentary rocks
 RT Sedimentary structures
 RT Sediments

Sediments

NT1 Sediment deposits
 RT Alluvium
 RT Argillaceous rocks
 RT Catagenesis
 RT Deltas
 RT Depositional environment
 RT Geologic deposits
 RT Lithification
 RT Sand production
 RT Sea bed
 RT Sedimentary basins
 RT Sedimentary structures
 RT Sedimentation
 RT Sedimentology

Seismic

See Microseisms
 See Seismic detection
 See Seismic effects
 See Seismic events
 See Seismic P waves
 See Seismic reflection surveys
 See Seismic refraction surveys
 See Seismic S waves
 See Seismic surveys
 See Seismic waves
 See Seismology

Seismic detection

RT Seismic S waves
 RT Seismicity
 RT Sonic logging

Seismic effects

RT Seismic events
 RT Seismicity
 RT Shock waves

Seismic events

NT1 Earthquakes
 RT Ground motion
 RT Nuclear explosions
 RT Seismic effects
 RT Seismic waves

Seismic noise

RT Microseisms

Seismic p waves

BT1 Seismic waves
 RT Seismic S waves
 RT Seismicity

Seismic reflection surveys

BT1 Seismic surveys
 BT2 Geophysical surveys
 RT Seismic refraction surveys

Seismic refraction surveys

BT1 Seismic surveys
 BT2 Geophysical surveys
 RT Seismic reflection surveys

Seismic s waves

BT1 Seismic waves
 RT Earthquakes
 RT Seismic detection
 RT Seismic P waves
 RT Seismic surveys
 RT Underground explosions

Seismic surveys

BT1 Geophysical surveys
 BT2 Exploration methods
 NT1 Seismic reflection surveys
 NT1 Seismic refraction surveys
 RT Seismic S waves

Geopressured Geothermal Bibliography

Seismic waves

NT1 Microseisms
NT1 Rayleigh waves
NT1 Seismic P waves
NT1 Seismic S waves
RT Earth movements
RT Earthquakes
RT Seismic events
RT Seismicity
RT Seismology
RT Shock waves
RT Travel time

Seismicity

RT Seismic detection
RT Seismic effects
RT Seismic P waves
RT Seismic waves
RT Seismology

Seismographs

BT1 Measuring instruments

Seismology

RT Earth movements
RT Earthquakes
RT Geology
RT Microseisms
RT Seismic waves
RT Seismicity
RT Shock waves

Selection

See Environment
See Meteorology
See Planning
See Site selection

Selenium

BT1 Semimetals
BT2 Elements

Self

See Self potential surveys
See Sp logging

Self

See Self potential surveys
See Sp logging

Self potential

See Self potential surveys
See Sp logging

Self potential logging

Use Sp logging

Self potential surveys

BT1 Electrical surveys
BT2 Geophysical surveys
RT Sp logging

Semimetals

BT1 Elements
NT1 Arsenic
NT1 Boron
NT1 Selenium
NT1 Silicon
NT1 Tellurium

Semipermeable

See Semipermeable membranes

Semipermeable membranes

RT Electrodialysis
RT Osmosis
RT Osmotic pressure
RT Permeability
RT Porous media

Sensing

Also see Aerial surveys
Also see Infrared surveys
Use Detection

Sensitivity

RT Accuracy
RT Calibration
RT Measuring instruments
RT Measuring methods

Separation

See Refining
See Separation processes

Separation processes

NT1 Chromatography
NT1 Demineralization
NT1 Electrodialysis
NT1 Filtration
NT1 Ion exchange
NT1 Leaching
NT1 Precipitation
RT Adsorption
RT Chemisorption
RT Refining
RT Steam separators

Separators

Also see Separation processes
 Also see Steam condensers
 Also see Vapors
 Use Steam separators
 Use Vapor separators

Sericite

BT1 Micas
 BT2 Silicate minerals

Serpentine

Use Serpentines

Serpentines

BT1 Silicate minerals
 BT2 Minerals

Setting

See Field studies
 See Geologic structures
 See Geological surveys
 See Hydrology
 See Minerals
 See Rocks

Shale

BT1 Clastic rocks
 BT2 Sedimentary rocks
 NT1 Oil shale
 RT Mudstone
 RT Sand shale ratio
 RT Siltstone
 Also see Fossil fuels
 Also see Shale control
 Also see Shale diapirs
 Also see Water influx

Shale control

BT1 Control

Shale diapirs

BT1 Diapirs
 BT2 Anticlines
 NT1 Mud lumps
 NT1 Mud volcanoes

Shale treatment

Use Shale control

Shale water influx

Use Water influx

Shear

BT1 Stresses
 NT1 Rock shear
 RT Tensile properties
 Also see Rock failures
 Also see Seismic s waves
 Also see Shear properties

Shear properties

BT1 Mechanical properties

Shear strength

Use Shear properties

Shear stress

BT1 Stresses
 RT Mechanical properties

Shear waves

Use Seismic s waves

Shelf

See Coastal waters
 See Continents
 See Marine geology

Shelters

See Animal shelters
 See Farm buildings

Shock

See Earthquakes
 See Explosions
 See Ground motion
 See Seismic effects
 See Seismic waves
 See Seismology

Shock waves

RT Earthquakes
 RT Explosions
 RT Ground motion
 RT Seismic effects
 RT Seismic waves
 RT Seismology

Shooting

See Explosive stimulation

Shores

RT Coastal regions
 RT Coastal waters
 RT Lakes
 RT Offshore sites
 RT Seas

Geopressured Geothermal Bibliography

Shortite

BT1 Carbonate minerals
BT2 Minerals
BT1 Sodium minerals
BT2 Minerals

Shut

See Reservoir pressure

Shut in pressure

Use Reservoir pressure

Siderite

BT1 Carbonate minerals
BT2 Minerals

Silica

See Silica minerals

Silica minerals

BT1 Minerals
NT1 Chalcedony
NT1 Cristobalite
NT1 Opal
NT1 Quartz
NT1 Tridymite
RT Silicate minerals

Silicate

See Silica minerals
See Silicate minerals

Silicate minerals

BT1 Minerals
NT1 Amphiboles
NT1 Chlorite minerals
NT1 Clay minerals
NT1 Epidotes
NT1 Feldspars
NT1 Micas
NT1 Pyrophyllite
NT1 Pyroxenes
NT1 Serpentine
NT1 Zeolites
RT Silica minerals

Silicon

BT1 Semimetals
BT2 Elements

Sill

See Sill intrusions

Sill intrusions

BT1 Concordant intrusions
BT2 Igneous intrusions

Silt

See Sand production

Silt production

Use Sand production

Siltstone

BT1 Clastic rocks
BT2 Sedimentary rocks
RT Mudstone
RT Quartz
RT Sandstone
RT Sediment deposits
RT Shale

Silurian

See Silurian Period

Silurian Period

BT1 Paleozoic Era
BT2 Geologic times

Silver

BT1 Transition elements
BT2 Metals
Also see Silver inorganic compounds

Silver inorganic compounds

Simulation

NT1 Computerized simulation
RT Computer codes
RT Functional models
RT Mathematical models
RT Systems analysis

Site

See Environment
See Meteorology
See Planning
See Site selection

Site preparation

RT Site selection

Site selection

RT Accidents
RT Archaeological sites
RT Environment
RT Licensing
RT Meteorology
RT Offshore sites
RT Planning
RT Site preparation

Sites
 See Coastal waters
 See Offshore sites
 See Seas
 See Shores
 See Site selection

Size
 See Hole diameter

Slate
 BT1 Metamorphic rocks
 BT2 Rocks

Slip
 See Lateral faults

Slope
 See Slope stability

Slope stability
 RT Soil mechanics

Slopes
 See Continents
 See Marine geology
 See Oceanic crust
 See Seas

Slurry
 See Slurry packing

Slurry packing

Smackover
 See Louisiana
 See Mississippi
 See Texas

Smackover Formation
 RT Louisiana
 RT Mississippi
 RT Texas

Snow
 BT1 Atmospheric precipitations
 BT2 Meteorology
 RT Frost
 RT Rain
 RT Storms

Social
 See Sociology
 See Socio-economic factors

Social impact
 RT Sociology
 RT Socio-economic factors

Socialist
 See USSR

Socio
 See Economics
 See Socio-economic factors

Socio-economic
 See Economics
 See Socio-economic factors

Socio-economic factors
 RT Communities
 RT Economic impact
 RT Economics
 RT Human populations
 RT Social impact
 RT Sociology

Sociology
 NT1 Demography
 RT Human populations
 RT Public relations
 RT Regional analysis
 RT Social impact
 RT Socio-economic factors
 RT Urban populations

Sodium
 BT1 Alkali metals
 BT2 Metals
 Also see Sodium chlorides
 Also see Sodium inorganic compounds
 Also see Sodium minerals
 Also see Sodium sulfates

Sodium chlorides
 BT1 Sodium inorganic compounds
 BT1 Chlorides
 BT2 Chlorine inorganic compounds
 RT Halite

Sodium inorganic compounds
 NT1 Sodium chlorides
 NT1 Sodium sulfates

Sodium minerals
 BT1 Minerals
 NT1 Shortite

Geopressured Geothermal Bibliography

Sodium sulfates

BT1 Sodium inorganic compounds
BT1 Sulfates
BT2 Oxygen inorganic compounds

Soil

See Agriculture
See Consolidation
See Field studies
See Mechanical properties
See Rock mechanics
See Sea bed
See Slope stability
See Soils

Soil mechanics

RT Consolidation
RT Field studies
RT Mechanical properties
RT Rock mechanics
RT Sea bed
RT Slope stability
RT Soils

Soil warming

RT Agriculture

Soils

NT1 Permafrost
RT Agriculture
RT Soil mechanics

Solar

See Ocean thermal power plants
See Solar energy
See Solar energy conversion
See Solar power plants

Solar energy

BT1 Energy
RT Solar energy conversion
RT Solar power plants

Solar energy conversion

BT1 Energy conversion
BT2 Conversion
NT1 Ocean thermal energy conversion
RT Solar energy

Solar power plants

BT1 Power plants
RT Solar energy

Solar sea power plants

Use Ocean thermal power plants

Solid

See Dissolved solids
See Solid solutions
See Solid wastes

Solid solutions

BT1 Solutions

Solid wastes

BT1 Wastes
NT1 Mineral wastes
RT Chemical effluents
RT Dissolved solids
RT Organic matter
RT Waste disposal

Solidification

RT Crystallization

Solids

NT1 Dissolved solids
RT Crystals
RT Dispersions
Also see Plugging
Also see Waste disposal
Also see Water analysis

Solubility

BT1 Chemical properties
NT1 Vapor solubility
RT Dissolved gases
RT Dissolved solids
RT Leaching
RT Precipitation
RT Saturation
RT Solutions
RT Solvents
RT Supersaturation

Solution

See Dissolved gases
See Mathematical models
See Mathematics
See Numerical analysis
See Numerical solution

Solution gases

Use Dissolved gases

Solutions

NT1 Aqueous solutions
 NT1 Brines
 NT1 Nonaqueous solutions
 NT1 Solid solutions
 RT Concentration dependence
 RT Corrosion
 RT Dissolved gases
 RT Dissolved solids
 RT Infinite dilution
 RT Interstitial water
 RT Mixtures
 RT Salinity
 RT Saturation
 RT Sea water
 RT Solubility
 RT Solvents
 RT Supersaturation
 Also see Empirical equations
 Also see Low concentration

Solvents

RT Solubility
 RT Solutions

Sonic

See Acoustic monitoring
 See Cement bond logging
 See Seismic detection
 See Sonic logging
 See Sound velocity
 See Sound waves

Sonic logging

BT1 Well logging
 RT Acoustic monitoring
 RT Cement bond logging
 RT Seismic detection
 RT Sound velocity
 RT Sound waves

Sonic velocity

Use Sound velocity

Sound

Also see Sound velocity
 Use Sound waves

Sound velocity

BT1 Velocity
 RT Sonic logging
 RT Sound waves

Sound waves

RT Noise
 RT Sonic logging
 RT Sound velocity

Sources

See Energy
 See Energy sources
 See Heat flow
 See Heat sources

South

See South America
 See South China Sea

South America

BT1 Continents

South China Sea

BT1 Pacific Ocean
 BT2 Seas

Soviet

See USSR

Soviet Union

Use USSR

Sp

See Induction logging
 See Resistivity logging
 See Sp logging

Sp logging

BT1 Electrical logging
 BT2 Well logging
 RT Induction logging
 RT Resistivity logging
 RT Self potential surveys

Space

See Direct energy utilization
 See District heating
 See Electric heating
 See Geothermal space heating
 See Hot water heating
 See Space heating

Space heating

BT1 Heating
 NT1 Geothermal space heating
 RT Central heating plants
 RT Direct energy utilization
 RT District heating
 RT Electric heating
 RT Hot water heating

Geopressured Geothermal Bibliography

Spacing

See Drawdown
See Geopressured wells
See Geopressured zones
See Geothermal fields
See Geothermal wells
See Natural gas fields
See Oil fields
See Oil wells
See Well interference
See Wells

Specific

See Specific heat

Specific heat

BT1 Thermodynamic properties
BT2 Physical properties
RT Heat budget

Specifications

RT Design
RT Inspection
RT Patents
RT Regulations
RT Reliability
RT Standardization
RT Standards

Spectrometric

See Gamma spectroscopy
See Spectrometric surveys
See Spectroscopy

Spectrometric surveys

BT1 Geophysical surveys
BT2 Exploration methods
RT Gamma spectroscopy
RT Spectroscopy

Spectroscopy

BT1 Chemical analysis methods
BT2 Measuring methods
RT Spectrometric surveys
Also see Absorption spectroscopy
Also see Emission spectroscopy
Also see Gamma spectroscopy

Sphalerite

BT1 Sulfide minerals
BT2 Minerals

Sphalerites

Use Sphalerite

Spontaneous

See Sp logging

Spontaneous potential logging

Use Sp logging

Spreading

See Earth crust
See Oceanic crust
See Plate tectonics
See Sea floor spreading
See Seas

Springs

See Coso Hot Springs KGRA
See Ground water
See Hot springs
See Hydrothermal systems
See Mineral springs
See Thermal springs
See Thermal waters
See Warm springs
See Water springs

Springs (water)

Use Water springs

St Mary Parish

BT1 Louisiana
BT2 Gulf Coast

Stability

Use Slope stability

Stack

See Gaseous wastes
See Stack disposal

Stack disposal

BT1 Waste disposal
BT2 Waste management
RT Gaseous wastes

Stage

See Hydrothermal alteration
See Hydrothermal systems
See Magma
See Volcanism

Stainless

See Corrosion protection
See Crevice corrosion
See Stainless steels

Stainless steels
 BT1 Steels
 BT2 Alloys
 BT1 Corrosion resistant alloys
 RT Corrosion protection
 RT Corrosion resistance
 RT Crevice corrosion

Standard
 See Standard pressure
 See Standard temperature

Standard pressure
 RT Pressure dependence

Standard temperature
 RT Temperature dependence

Standardization
 RT Specifications
 RT Standards

Standards
 NT1 Safety standards
 RT Compliance
 RT Specifications
 RT Standardization
 Also see Legal aspects
 Also see Regulations
 Also see Safety

Starr
 See Starr County

Starr County
 BT1 Texas
 BT2 Gulf Coast

State
 See Crystallization
 See Government policies
 See National government
 See Regulations
 See State government

State government
 RT Government policies
 RT Legislation
 RT Local government
 RT National government
 RT Regulations

Statements
 See Environmental impact statement

States
 See USA

Static
 See Reservoir pressure

Static pressure
 See Hydrostatic pressure

Static reservoir pressure
 Use Reservoir pressure

Statistical
 See Mathematics
 See Statistical models

Statistical models
 BT1 Mathematical models
 BT2 Models
 RT Mathematics

Steam
 RT Condensates
 RT Flashing
 RT Gas ejectors
 RT Steam generators
 RT Steam system
 RT Superheating
 RT Water
 RT Water vapor
 Also see Flashed steam systems
 Also see Geothermal heating
 Also see Geothermal resources
 Also see Geothermal energy conversion
 Also see Heat exchangers
 Also see Heat transfer
 Also see Hot water systems
 Also see Hydrothermal systems
 Also see Natural steam
 Also see Separation processes
 Also see Steam condensers
 Also see Steam generators
 Also see Steam heating
 Also see Steam power plants
 Also see Steam separators
 Also see Steam turbines
 Also see Steam turbine power generation
 Also see Thermodynamic cycles
 Also see Vapor dominated systems

Geopressured Geothermal Bibliography

Steam condensers	Stem
BT1 Vapor condensers	See Drill stem testing
BT2 Condensers	
RT Heat exchangers	
RT Heat transfer	
RT Steam separators	
Steam flashing	Stimulation
Use Flashing	Also see Explosive stimulation
Steam generators	Also see Hydraulic fracturing
BT1 Vapor generators	Also see Plugging
RT Boiling	Also see Wells
RT Heat exchangers	Use Well stimulation
RT Heat transfer	
RT Steam	
Steam heating	Stock
BT1 Heating	See Batholiths
RT Geothermal heating	See Discordant intrusions
Steam power plants	See Stock intrusions
BT1 Thermal power plants	
BT2 Power plants	Stock intrusions
RT Steam turbines	BT1 Igneous intrusions
RT Steam turbine power generation	RT Batholiths
	RT Discordant intrusions
Steam separators	Storage
BT1 Vapor separators	NT1 Energy storage
RT Separation processes	Also see Direct energy utilization
RT Steam condensers	Also see Heat storage
	Also see Waste storage
Steam system	Stored
RT Steam	See Energy storage
Steam turbine power generation	See Heat storage
BT1 Turbines	See Stored energy
RT Rankine cycle	
RT Steam power plants	Stored energy
RT Steam turbines	BT1 Energy
Steam turbines	RT Energy storage
BT1 Turbines	RT Heat storage
RT Steam power plants	
RT Steam turbine power generation	Storms
	NT1 Hurricanes
Steels	RT Atmospheric precipitations
BT1 Alloys	RT Hazards
NT1 Carbon steels	RT Meteorology
NT1 Stainless steels	RT Rain
Also see Corrosion protection	RT Snow
Also see Crevice corrosion	RT Weather
Also see Stainless steels	RT Wind
	Strain
	See Strain rate
	See Strains
	See Tensile properties

Strain rate
 BT1 Rates
 RT Strains
 RT Tensile properties

Strains
 RT Consolidation
 RT Deformation
 RT Displacements
 RT Elasticity
 RT Strain rate
 RT Stresses
 RT Tensile properties

Strata
 BT1 Geologic structures
 RT Overburden
 RT Stratigraphy

Stratigraphic
 See Geologic control
 See Stratigraphic maps
 See Stratigraphic traps

Stratigraphic control
 Use Geologic control

Stratigraphic maps
 BT1 Maps
 BT2 Document types
 NT1 Facies maps
 NT1 Isochore maps
 NT1 Isopach maps
 NT1 Trend maps
 RT Stratigraphy

Stratigraphic traps
 BT1 Traps
 BT2 Geologic structures
 RT Natural gas deposits
 RT Permeability barrier
 RT Petroleum deposits
 RT Stratigraphy
 RT Structural traps

Stratigraphy
 NT1 Biostratigraphy
 RT Formation thickness
 RT Geologic structures
 RT Geology
 RT Paleontology
 RT Petroleum geology
 RT Sedimentary basins
 RT Sedimentary petrology
 RT Sedimentary structures
 RT Strata
 RT Stratigraphic maps
 RT Stratigraphic traps
 RT Zonation

Stratosphere
 BT1 Earth atmosphere
 RT Troposphere

Streams
 BT1 Surface waters
 NT1 Rivers

Strength
 See Shear properties
 See Tensile properties

Strength (shear)
 Use Shear properties

Stress
 See Pore pressure
 See Rock failures
 See Stress corrosion

Stress corrosion
 BT1 Corrosion
 BT2 Chemical reactions
 RT Scaling

Stresses
 NT1 Shear
 NT1 Shear stress
 RT Materials testing
 RT Mechanical properties
 RT Strains
 RT Tensile properties
 RT Thermoelasticity

Strike
 See Lateral faults

Strike slip faults
 Use Lateral faults

Geopressured Geothermal Bibliography

Strontium

BT1 Alkaline earth metals
BT2 Metals
Also see Strontium inorganic compounds

Strontium inorganic compounds

Structural

See Geanticlines
See Geologic control
See Geologic structures
See Mathematical models
See Stratigraphic traps
See Structural models
See Structural traps

Structural control

Use Geologic control

Structural features

Use Geologic structures

Structural geology

RT Geanticlines
RT Rock deformation
RT Salt tectonics
RT Sedimentary structures
RT Structural traps
RT Uplifts

Structural models

BT1 Models
RT Mathematical models

Structural traps

BT1 Traps
BT2 Geologic structures
RT Natural gas deposits
RT Petroleum deposits
RT Stratigraphic traps
RT Structural geology

Structure

See Earth planetary structure

Structures

Also see Crystallography
Also see Geologic structures
Also see Residential buildings
Also see Sedimentary petrology
Also see Sedimentation
Also see Sedimentology
Also see Sediments
Also see Stratigraphy
Use Buildings

Structures (geologic)

Use Geologic structures

Studies

See Comparative evaluations
See Economics
See Experimental results
See Exploration methods
See Feasibility studies
See Field studies
See Geology
See Hydrology
See Rock mechanics

Submarine

See Marine geology
See Submarine trenches

Submarine geology

Use Marine geology

Submarine trenches

RT Benioff zones

Subnormal

See Subnormal formation pressure

Subnormal formation pressure

Subnormal pressure

Use Subnormal formation pressure

Subpressure

Use Subnormal formation pressure

Subsidence

Also see Compaction
Also see Consolidation
Use Ground subsidence

Subsidies

BT1 Financial incentives
 RT Economics
 RT Financing

Subsurface

See Exploration methods
 See Hydrogeology
 See Reservoir properties
 See Subsurface reservoirs
 See Subsurface temperature
 See Subsurface waters
 See Underground disposal
 See Water

Subsurface disposal

Use Underground disposal

Subsurface mapping

RT Exploration methods

Subsurface reservoirs

NT1 Aquifers
 NT1 Geothermal reservoirs
 NT1 Magma reservoirs
 RT Reservoir properties
 RT Subsurface waters
 RT Well interference

Subsurface temperature

NT1 Reservoir temperature

Subsurface waters

NT1 Artesian water
 NT1 Capillary water
 NT1 Free water
 NT1 Ground water
 NT1 Juvenile water
 NT1 Vadose water
 RT Artesian aquifers
 RT Brackish water
 RT Hydrogeology
 RT Subsurface reservoirs
 RT Water
 RT Water resources

Subterrene

See Earth penetrators
 See Rock drilling
 See Subterrene penetrators
 See Well drilling

Subterrene penetrators

BT1 Penetrators
 RT Boreholes
 RT Earth penetrators
 RT Rock drilling
 RT Well drilling

Sugar

See Sugar cane

Sugar cane

BT1 Plants
 BT2 Biomass

Sulfate

See Sulfate minerals
 See Sulfates

Sulfate minerals

BT1 Minerals
 NT1 Alunite
 NT1 Anhydrite
 NT1 Barite
 NT1 Gypsum
 RT Sulfates

Sulfates

BT1 Oxygen inorganic compounds
 BT1 Sulfur inorganic compounds
 NT1 Barium sulfates
 NT1 Calcium sulfates
 NT1 Calcium sulfates
 NT1 Magnesium sulfates
 RT Sulfate minerals
 Also see Barium sulfates
 Also see Calcium sulfates
 Also see Magnesium sulfates
 Also see Sodium sulfates

Sulfide

See Sulfide minerals
 See Sulfides

Sulfide minerals

BT1 Minerals
 NT1 Chalcopyrite
 NT1 Galena
 NT1 Pyrite
 NT1 Sphalerite
 RT Sulfides

Geopressured Geothermal Bibliography

Sulfides

BT1 Sulfur inorganic compounds
NT1 Hydrogen sulfides
RT Sulfide minerals
Also see Air pollution
Also see Dissolved gases
Also see Environmental effects
Also see Hydrogen sulfides

Sulfur

BT1 Nonmetals
BT2 Elements
RT Frasch sulfur process
Also see Sulfur inorganic compounds

Sulfur inorganic compounds

NT1 Sulfates
NT1 Sulfides

Superheating

BT1 Heating
RT Steam

Supersaturation

RT Precipitation
RT Saturation
RT Solubility
RT Solutions

Supplies

See Energy balance
See Energy consumption
See Energy demand
See Energy sources
See Energy storage
See Energy yield
See Reserves
See Resources

Surface

See Atmospheric precipitations
See Environment
See Oceanography
See Plankton
See Salt water
See Surface disposal
See Surface equipment
See Surface properties
See Surface temperature
See Surface waters
See Trend analysis
See Water

Surface disposal

BT1 Waste disposal
BT2 Waste management

Surface equipment

BT1 Equipment
NT1 Collecting tanks
NT1 Injection pumps
NT1 Transfer pipes
RT Wates disposal

Surface properties

RT Adsorption
RT Capillary pressures
RT Chemical properties
RT Corrosion
RT Physical properties

Surface temperature

Surface waters

NT1 Coastal waters
NT1 Estuaries
NT1 Lakes
NT1 Seas
NT1 Streams
NT1 Swimming pools
NT1 Water reservoirs
RT Atmospheric precipitations
RT Environment
RT Fishes
RT Floods
RT Hydrology
RT Hydrosphere
RT Limnology
RT Liquid wastes
RT Oceanography
RT Plankton
RT Salt water
RT Sea water
RT Water
RT Water resources

Surface Monitoring

Surpressure

Use Geopressure

Surveys

See Aerial surveys
See Electrical logging
See Electrical surveys
See Electromagnetic surveys
See Gamma ray surveys
See Gamma spectroscopy
See Geochemical surveys
See Geological surveys
See Geophysical surveys
See Geothermal exploration
See Geothermal gradient surveys
See Gravimetry
See Gravitation
See Gravity logging
See Gravity surveys
See Heat flow surveys
See Induction logging
See Infrared surveys
See Magnetic surveys
See Magnetotelluric surveys
See Marine surveys
See Radioactivity surveys
See Radiometric surveys
See Resistivity logging
See Resistivity surveys
See Seismic reflection surveys
See Seismic refraction surveys
See Seismic S waves
See Seismic surveys
See Self potential surveys
See Sp logging
See Spectrometric surveys
See Spectroscopy
See Telluric surveys
See Temperature surveys
See Well logging

Suspended

See Dissolved solids
See Plugging
See Waste disposal

Suspended solids

RT Dissolved solids
RT Plugging
RT Waste disposal

Swimming

See Swimming pools

Swimming pools

BT1 Surface waters

Symposia

Use Meetings

Synclines

BT1 Folds
BT2 Geologic structures
NT1 Geosynclines
RT Synclinoria

Synclinoria

BT1 Fold systems
BT2 Geologic structures
RT Geosynclines
RT Synclines

Synthetic fuels

BT1 Fuels
RT Fuel gas

System

See Steam

Geopressured Geothermal Bibliography

Systems

See Binary cycle power systems
See Cooling systems
See Data acquisition systems
See Failures
See Fault blocks
See Fault systems
See Flashed steam systems
See Fold systems
See Gas turbine power generation
See Geopressured systems
See Geopressured zones
See Geothermal systems
See Geothermal energy conversion
See Hot dry rock systems
See Hot water systems
See Hydrology
See Hydrothermal systems
See Information needs
See Information systems
See Magma
See Magma systems
See Measuring instruments
See Monitoring
See Power generation
See Rankine cycle
See Rivers
See Simulation
See Systems analysis
See Thermodynamic cycles
See Vapor dominated systems
See Well information systems
See Well logging

Systems analysis

RT Failures
RT Reliability
RT Simulation

Tabasco

BT1 Mexico
BT2 North America
RT Gulf Coast

Table

See Aquifers
See Ground water
See Ground water recharge
See Water springs
See Water table

Tables

BT1 Information
RT Data
RT Document types
RT Experimental results
RT Graphs

Tanks

See Collecting tanks

Taxes

RT Economics
RT Financial incentives
RT Trade

Technical

See Specifications

Technical specifications

Use Specifications

Techniques

See Agriculture
See Cultivation techniques
See Measuring methods

Technology

See Commercialization
See Feasibility studies
See Industry

Technology assessment

RT Feasibility studies
RT Industry

Technology utilization

RT Commercialization
RT Feasibility studies
RT Industry

Tectonics

BT1 Geology
NT1 Plate tectonics
RT Convection cells
RT Diastrophism
RT Rift valleys
RT Rock deformation
RT Uplifts
Also see Earth crust
Also see Rift valleys
Also see Salt tectonics
Also see Volcanism

Tectonism

Use Diastrophism

- Telluric**
See Telluric surveys
- Telluric current exploration**
Use Telluric surveys
- Telluric surveys**
 - BT1 Electrical surveys
 - BT2 Geophysical surveys
 - RT Geothermal exploration
- Tellurium**
 - BT1 Semimetals
 - BT2 Elements
- Temperature**
 - See Bottom hole temperature
 - See Elevated temperature
 - See Geopressured reservoirs
 - See Geothermometers
 - See Geothermometry
 - See Heat
 - See High temperature
 - See Isotherm
 - See Low temperature
 - See Measuring instruments
 - See Moderate temperature
 - See Physical properties
 - See Reservoir temperature
 - See Standard temperature
 - See Subsurface temperature
 - See Surface temperature
 - See Temperature control
 - See Temperature distribution
 - See Temperature effects
 - See Temperature gradients
 - See Temperature logging
 - See Temperature measurement
 - See Temperature monitoring
 - See Temperature surveys
 - See Thermal insulation
 - See Transition temperature
 - See Well characteristics
 - See Well head temperature
 - See Wells
- Temperature (<25 deg c)**
Use Low temperature
- Temperature (>400 deg c)**
Use High temperature
- Temperature (bottom hole)**
Use Bottom hole temperature
- Temperature (reservoir)**
Use Reservoir temperature
- Temperature (surface)**
Use Surface temperature
- Temperature (well head)**
Use Well head temperature
- Temperature (101-400 deg c)**
Use Elevated temperature
- Temperature (25 deg c)**
Use Standard temperature
- Temperature (26-100 deg c)**
Use Moderate temperature
- Temperature control**
 - BT1 Control
 - RT Temperature measurement
 - RT Temperature monitoring
 - RT Thermal insulation
- Temperature dependence**
 - RT Elevated temperature
 - RT High temperature
 - RT Low temperature
 - RT Moderate temperature
 - RT Standard temperature
 - RT Temperature distribution
 - RT Temperature effects
- Temperature distribution**
 - BT1 Distribution
 - RT Isotherm
 - RT Temperature dependence
 - RT Temperature gradients
 - RT Temperature surveys
- Temperature effects**
 - BT1 Effects
 - RT Heat
 - RT Temperature dependence
 - RT Thermoelasticity
 - RT Thermal effluents
 - RT Thermal pollution
- Temperature gradients**
 - NT1 Geothermal gradients
 - RT Isotherm
 - RT Temperature distribution
- Temperature inversion**
RT Meteorology

Geopressured Geothermal Bibliography

Temperature logging

BT1 Well logging
RT Bottom hole temperature
RT Reservoir temperature
RT Temperature measurement
RT Temperature surveys
RT Well characteristics

Temperature measurement

BT1 Measurement
RT Geothermometers
RT Geothermometry
RT Isotherm
RT Measuring instruments
RT Physical properties
RT Temperature control
RT Temperature logging
RT Temperature monitoring
RT Thermometers

Temperature monitoring

BT1 Monitoring
RT Temperature control
RT Temperature measurement

Temperature surveys

BT1 Thermal exploration
methods
BT2 Geophysical surveys
RT Temperature distribution
RT Temperature logging

Tenneco Fee "N" No. 1 Well

BT1 Louisiana
BT2 USA
BT3 North America

Tensile

See Strains
See Stresses
See Tensile properties

Tensile properties

BT1 Mechanical properties
NT1 Elasticity
RT Shear
RT Strain rate
RT Strains
RT Stresses

Tensile strength

Use Tensile properties

Terrebonne Parish

BT1 Louisiana
BT2 USA
BT3 North America

Terrestrial

See Heat flow

Terrestrial heat flow

Use Heat flow

Tertiary

See Tertiary Period

Tertiary Period

BT1 Cenozoic Era
BT2 Geologic times
NT1 Eocene Epoch
NT1 Miocene Epoch
NT1 Neogene Epoch
NT1 Oligocene Epoch
NT1 Paleocene Epoch
NT1 Pliocene Epoch

Test

See Aquifer tests
See Comparative evaluations
See Field studies

Test facilities

RT Aquifer tests
RT Comparative evaluations
RT Field studies

Testing

NT1 Drill stem testing
NT1 Materials testing
NT1 Performance testing
RT Feasibility studies
RT Laboratory testing
RT Sampling
Also see Corrosion
Also see Inspection
Also see Mechanical
properties
Also see Performance
Also see Productivity
Also see Stresses

Tests

See Aquifer tests
See Comparative evaluations
See Field studies
See Observation wells

Texas

BT1 Gulf Coast
 BT2 North America
 NT1 Brazoria County
 NT1 Brewster County
 NT1 Brooks County
 NT1 Cameron County
 NT1 Corpus Christi Fairway
 NT1 Culberson County
 NT1 El Paso County
 NT1 Galveston County
 NT1 Harris County
 NT1 Hidalgo County
 NT1 Hudspeth County
 NT1 Jeff Davis County
 NT1 Kenedy County
 NT1 Kleberg County
 NT1 Live Oak County
 NT1 Matagorda Fairway
 NT1 Matagorda County
 NT1 Montgomery Fairway
 NT1 Nueces County
 NT1 Pleasant Bayou No. 1
 Well
 NT1 Pleasant Bayou No. 2
 Well
 NT1 Presidio County
 NT1 Rio Grande embayment
 NT1 Starr County
 NT1 Willacy County
 RT Anadarko Basin
 RT Delaware Basin
 RT Frio Formation
 RT Gulf Coast
 RT Norphlet Formation
 RT Queen City Formation
 RT Rio Grande Rift
 RT Smackover Formation
 RT Trans-pecos hot rocks
 RT Vicksburg Formation
 RT Wilcox Formation

Texas Railroad Commission**Texas Water Quality Board****Textbooks**

BT1 Document types

Thallium

BT1 Metals
 BT2 Elements

Theoretical

See Theoretical treatments

Theoretical treatments

BT1 Document types
 RT Experimental results

Thermal

See Elongation
 See Flashing
 See Geothermal fluids
 See Heat flow
 See Heat transfer
 See Hydrothermal systems
 See Ocean thermal power
 plants
 See Ocean thermal energy
 conversion
 See Specific heat
 See Temperature effects
 See Temperature gradients
 See Temperature logging
 See Thermal conduction
 See Thermal conductivity
 See Thermal diffusivity
 See Thermal efficiency
 See Thermal effluents
 See Thermal equilibrium
 See Thermal expansion
 See Thermal expansivity
 See Thermal exploration
 methods
 See Thermal insulation
 See Thermal pollution
 See Thermal power plants
 See Thermal springs
 See Thermal waters
 See Thermodynamic cycles
 See Thermodynamic properties
 See Waste heat

Thermal capacity

Use Specific heat

Thermal conduction

BT1 Heat transfer
 BT2 Energy transfer
 RT Heat flow
 RT Thermal conductivity
 RT Thermal insulation

Thermal conductivity

BT1 Thermodynamic properties
 BT2 Physical properties
 RT Heat flow
 RT Heat transfer
 RT Thermal conduction
 RT Thermal insulation

Geopressured Geothermal Bibliography

Thermal diffusion

RT Heat transfer
RT Thermal diffusivity

Thermal diffusivity

BT1 Thermodynamic properties
BT2 Physical properties
RT Thermal diffusion
RT Thermal insulation

Thermal effects

Use Temperature effects

Thermal efficiency

BT1 Efficiency
RT Thermodynamic cycles

Thermal effluents

RT Geothermal brines
RT Geothermal fluids
RT Temperature effects
RT Thermal pollution
RT Thermal waters
RT Waste heat

Thermal equilibrium

BT1 Equilibrium
RT Heat transfer

Thermal expansion

BT1 Expansion
RT Elongation
RT Thermoelasticity
RT Thermal expansivity

Thermal expansivity

BT1 Thermodynamic properties
BT2 Physical properties
RT Thermal expansion

Thermal exploration methods

BT1 Geophysical surveys
BT2 Exploration methods
NT1 Geothermal gradient surveys
NT1 Heat flow surveys
NT1 Temperature surveys

Thermal gradients

Use Temperature gradients

Thermal insulation

RT Air conditioning
RT Heat transfer
RT Temperature control
RT Thermal conduction
RT Thermal conductivity
RT Thermal diffusivity

Thermal logging

Use Temperature logging

Thermal pollution

BT1 Pollution
RT Environmental effects
RT Temperature effects
RT Thermal effluents
RT Waste heat

Thermal power plants

BT1 Power plants
NT1 Combined cycle power plants
NT1 Fossil fuel power plants
NT1 Gas turbine power plants
NT1 Geothermal power plants
NT1 Nuclear power plants
NT1 Ocean thermal power plants
NT1 Steam power plants
RT Boilers

Thermal properties

Use Thermodynamic properties

Thermal springs

BT1 Water springs
NT1 Hot springs
NT1 Warm springs
RT Hydrothermal systems
RT Mineral springs
RT Thermal waters

Thermal waters

RT Flashing
RT Fumaroles
RT Geothermal brines
RT Geothermal fluids
RT Geysers
RT Hot springs
RT Hydrothermal systems
RT Thermal effluents
RT Thermal springs

Thermodynamic

See Thermodynamic cycles
See Thermodynamic properties

Thermodynamic cycles

NT1 Brayton cycle
 NT1 Carnot cycle
 NT1 Rankine cycle
 RT Binary cycles
 RT Binary fluid systems
 RT Closed-cycle systems
 RT Combined cycles
 RT Flashed steam systems
 RT Open-cycle systems
 RT Power generation
 RT Thermal efficiency
 RT Thermodynamics
 RT Total flow systems
 RT Working fluids

Thermodynamic properties

BT1 Physical properties
 NT1 Enthalpy
 NT1 Specific heat
 NT1 Thermal conductivity
 NT1 Thermal diffusivity
 NT1 Thermal expansivity
 NT1 Transition temperature
 NT1 Vapor pressure
 NT1 Volatility
 RT Thermoelasticity
 RT Thermodynamics

Thermodynamics

RT Energy recovery
 RT Energy
 RT Osmotic pressure
 RT Thermodynamic cycles
 RT Thermodynamic properties

Thermoelasticity

BT1 Elasticity
 BT2 Tensile properties
 BT3 Mechanical properties
 NT1 Deformation
 RT Stresses
 RT Temperature effects
 RT Thermodynamic properties
 RT Thermal expansion

Thermometers

BT1 Measuring instruments
 RT Geothermometers
 RT Temperature measurement

Thermometry

Also see Geothermometry
 Use Temperature measurement

Thickness

BT1 Dimensions
 NT1 Formation thickness
 RT Distance
 Also see Isopach maps

Thickness maps

Use Isopach maps

Thorium

BT1 Actinides
 BT2 Metals

Thrust

See Thrust faults

Thrust faults

BT1 Faults
 BT2 Geologic structures

Tidal

See Tidal power
 See Tidal power plants

Tidal power

BT1 Energy sources
 RT Tidal power plants
 RT Tide

Tidal power plants

BT1 Power plants
 RT Tidal power

Tide

RT Seas
 RT Tidal power

Tigre Lagoon Geothermal Field

BT1 Geothermal fields
 BT1 Louisiana
 BT2 USA
 BT3 North America

Time

See Pressure decline

Time dependence

RT Pressure decline

Times

See Geologic times

Tin

BT1 Metals
 BT2 Elements

Geopressured Geothermal Bibliography

Titanium
BT1 Transition elements
BT2 Metals

Titles
See Ownership

Topographic
See Geologic structures
See Mountains
See Submarine trenches

Topographic features
Use Geologic structures
Use Mountains
Use Submarine trenches

Topography
RT Earth planet
RT Geography
RT Maps
RT Topological mapping

Topological
See Maps
See Topography

Topological mapping
RT Maps
RT Topography

Total
See Dissolved solids
See Geothermal energy conversion
See Thermodynamic cycles

Total dissolved solids
Use Dissolved solids

Total flow systems
RT Geothermal energy conversion
RT Thermodynamic cycles

Towers
See Cooling
See Cooling systems
See Heat exchangers
See Power plants
See Vapor condensers

Toxicity
RT Biological effects

Trace
See Elements
See Trace amounts

Trace amounts
RT Infinite dilution
RT Low concentration

Trace elements
Use Elements
Use Trace amounts

Trade
RT Economics
RT Market
RT Taxes

Trans
See Texas

Trans-pecos
See Texas

Trans-Pecos Hot Rocks
RT Texas

Transfer
See Convection
See Electrodialysis
See Energy balance
See Energy transfer
See Fluid flow
See Heat exchangers
See Heat flow
See Heat transfer
See Mass transfer
See Steam condensers
See Thermal conductivity
See Thermal equilibrium
See Thermal insulation
See Transfer pipes
See Two phase flow

Transfer (energy)
Use Energy transfer

Transfer (heat)
Use Heat transfer

Transfer (mass)
Use Mass transfer

Transfer pipes
BT1 Pipes
BT1 Surface equipment
BT2 Equipment

Transformations

See Phase transformations

Transition

See Transition elements

See Transition temperature

Transition elements

BT1 Metals

BT2 Elements

NT1 Chromium

NT1 Copper

NT1 Gold

NT1 Iron

NT1 Manganese

NT1 Molybdenum

NT1 Nickel

NT1 Platinum

NT1 Silver

NT1 Titanium

NT1 Tungsten

NT1 Vanadium

Transition temperature

BT1 Thermodynamic properties

BT2 Physical properties

NT1 Melting point

Transmissibility

Use Permeability

Transmission

See Electric power

See Heat transfer

Transmissivity

BT1 Hydrogeologic properties

RT Aquifers

Transportation

See Waste transportation

Transuranium

See Transuranium elements

Transuranium elements

BT1 Elements

Traps

BT1 Geologic structures

NT1 Stratigraphic traps

NT1 Structural traps

RT Cap rock

RT Natural gas deposits

RT Petroleum deposits

RT Rocks

Travel time

RT Seismic waves

See Acoustic travel time

Treatment

See Acidization

See Brines

See Liquid wastes

See Ph adjustment

See Shale control

See Waste disposal

See Waste processing

See Water treatment

Treatments

See Theoretical treatments

Trenches

Use Submarine trenches

Trend

See Facies maps

See Net sand maps

See Sand percent maps

See Sand trend maps

See Trend analysis

See Trend maps

Trend analysis

BT1 Mathematics

RT Trend maps

Trend maps

BT1 Stratigraphic maps

BT2 Maps

NT1 Sand trend maps

RT Trend analysis

RT Trends

Trend surface analysis

Use Trend analysis

Trends

RT Trend maps

Triassic

See Triassic Period

Triassic Period

BT1 Mesozoic Era

BT2 Geologic times

Tridymite

BT1 Silica minerals

BT2 Minerals

Geopressured Geothermal Bibliography

Troposphere

BT1 Earth atmosphere
RT Air
RT Stratosphere

Tuff

BT1 Pyroclastic rocks
BT2 Extrusive rocks

Tungsten

BT1 Transition elements
BT2 Metals

Turbine

See Binary cycle power generation
See Gas turbine power plants
See Gas turbine power generation
See Steam turbine power generation

Turbines

NT1 Gas turbines
NT1 Steam turbines
RT Working fluids
Also see Gas turbine power generation
Also see Steam power plants
Also see Steam turbine power generation

Turkey

BT1 Middle East
BT1 Asia
BT2 Continents

Two phase

See Two phase flow

Two phase flow

BT1 Fluid flow
RT Boiling
RT Flashing
RT Heat transfer
RT Liquid flow

Types

See Document types

Uinta

See Uinta Basin
See Utah

Uinta basin

BT1 Geologic provinces
RT Utah

Unconfined

See Aquifers
See Ground water

Unconfined aquifers

Use Aquifers

Unconfined ground water

Use Ground water

Underground

See Injection wells
See Salt deposits
See Seismic S waves
See Underground disposal
See Underground explosions

Underground disposal

BT1 Waste disposal
BT2 Waste management
RT Injection wells
RT Salt deposits

Underground explosions

BT1 Explosions
RT Contained explosions
RT Seismic S waves

Underpressure

Use Subnormal formation pressure

Union

See USSR

Union of Soviet Socialist Republics

Use USSR

United

See USA

United States

Use USA

United States of America

Use USA

Unwatering

Use Dewatering

Uplifts

BT1 Geologic structures
RT Structural geology
RT Tectonics

Ural

See Urals

Ural Mountains

Use Urals

Urals

BT1 Mountains

RT Asia

RT Europe

RT USSR

Uranium

BT1 Actinides

BT2 Metals

Also see Uranium compounds

Uranium compounds**Urban**

See Sociology

See Urban areas

See Urban populations

See Zoning

Urban areas

RT Urban populations

RT Zoning

Urban populations

BT1 Human populations

BT2 Populations

RT Sociology

RT Urban areas

Use

See Land pollution

See Ownership

See Public lands

See Zoning

Uses

RT Direct energy utilization

RT Exploitation

Utah

BT1 USA

BT2 North America

RT Uinta Basin

Utilities

Also see Natural gas

Also see Power generation

Use Public utilities

Utilization

Also see Commercialization

Also see Direct energy utilization

Also see Feasibility studies

Also see Industry

Use Uses

US

See US organizations

See US AEC

See US Bureau of Reclamation

See US DOE

See US EPA

See US ERDA

US organizations

BT1 National organizations

NT1 LASL

NT1 US AEC

NT1 US Bureau of Reclamation

NT1 US DOE

NT1 US EPA

NT1 US ERDA

US Atomic Energy Commission

Use US AEC

US AEC

BT1 US organizations

BT2 National organizations

US Bureau of Reclamation

BT1 US organizations

BT2 National organizations

US DOE

BT1 US organizations

BT2 National organizations

RT US ERDA

US EPA

BT1 US organizations

BT2 National organizations

US ERDA

BT1 US organizations

BT2 National organizations

RT US DOE

RT USA

USA

BT1 North America

BT2 Continents

NT1 Alabama

RT Gulf Coast

RT US ERDA

Geopressured Geothermal Bibliography

USSR

RT Asia
RT Caspian Basin
RT Caspian Sea
RT Europe
RT Urals
RT Volga River

Vadose

See Free water
See Vadose water
See Water table

Vadose water

BT1 Subsurface waters
RT Free water
RT Water table

Valles

See Valles Caldera
Geothermal Field
See Vapor dominated systems

Valles Caldera

See Valles Caldera
Geothermal Field
See Vapor dominated systems

Valles Caldera Geothermal Field

BT1 Geothermal fields
BT1 New Mexico
BT2 USA
BT3 North America
RT Vapor dominated systems

Valley

See Geothermal fields
See Great Valley
See Imperial Valley
See Mono-long Valley KGRA
See Rift valleys
See San Joaquin Valley

Valleys

See Fault systems
See Faults
See Rift valleys
See Tectonics

Value

See Aqueous solutions
See Ph adjustment
See Ph value

Vanadium

BT1 Transition elements
BT2 Metals

Vapor

See Liquids
See Saturated vapor
See Steam
See Vapor condensers
See Vapor dominated systems
See Vapor generators
See Vapor pressure
See Vapor separators
See Vapor solubility
See Vapors
See Volatility
See Water
See Water vapor

Vapor (saturated)

Use Saturated vapor

Vapor condensers

BT1 Condensers
NT1 Steam condensers
RT Cooling towers

Vapor dominated systems

BT1 Hydrothermal systems
BT2 Geothermal systems
RT Geysers Geothermal Field
RT Larderello Geothermal
Field
RT Valles Calleido
Geothermal Field

Vapor generators

NT1 Steam generators
RT Vapors

Vapor pressure

BT1 Thermodynamic properties
BT2 Physical properties
RT Volatility

Vapor separators

NT1 Steam separators
RT Vapors

Vapor solubility

BT1 Solubility
BT2 Chemical properties

Vaporizing

Use Evaporation

Vapors

BT1 Gases
 BT2 Fluids
 NT1 Water vapor
 RT Evaporation
 RT Liquids
 RT Saturated vapor
 RT Vapor generators
 RT Vapor separators

Variations

See Seasons

Velocity

NT1 Sound velocity
 RT Flow rate
 RT Kinetic energy
 RT Rates

Velocity of sound

Use Sound velocity

Vermillion

NT1 Beulah Simon No. 2 Well
 See Vermillion Parish

Vermillion Parish

BT1 Louisiana
 BT2 Gulf Coast

Vicksburg

See Louisiana
 See Mississippi
 See Texas

Vicksburg Formation

RT Louisiana
 RT Mississippi
 RT Texas

Virginia

See West Virginia

Viscosity

RT Fluid flow
 RT Rheology

Vitrinite

BT1 Organic matter
 RT Coal

Volatility

BT1 Thermodynamic properties
 BT2 Physical properties
 RT Evaporation
 RT Flammability
 RT Vapor pressure

Volcanic

See Volcanism
 See Volcanoes

Volcanic activity

Use Volcanism

Volcanic regions

RT Volcanism
 RT Volcanoes

Volcanicity

Use Volcanism

Volcanism

BT1 Geologic processes
 RT Hydrothermal stage
 RT Lava
 RT Magma reservoirs
 RT Plate tectonics
 RT Pyroclastic rocks
 RT Rift valleys
 RT Volcanic regions
 RT Volcanoes

Volcanoes

RT Volcanic regions
 RT Volcanism
 Also see Mud volcanoes

Volga

See USSR
 See Volga River

Volga River

BT1 Europe
 BT2 Continents
 BT1 Rivers
 BT2 Streams
 RT USSR

Volume

BT1 Physical properties
 RT Density

Vulcanism

Use Volcanism

Wairakei

See Hot water systems
 See Wairakei Geothermal Field

Geopressured Geothermal Bibliography

Wairakei Geothermal Field

BT1 Geothermal fields
BT1 New Zealand
BT2 Australasia
RT Hot water systems

Wairakite

BT1 Zeolites
BT2 Silicate minerals

Warm

See Warm springs

Warm springs

BT1 Thermal springs
BT2 Water springs

Warming

See Agriculture

Washing

RT Scrubbing

Washington

BT1 USA
BT2 North America

Waste

See Disposal wells
See Gaseous wastes
See Gravel packing
See Injection pumps
See Injection wells
See Liquid wastes
See Radioactive wastes
See Recovery processes
See Salt deposits
See Scrubbers
See Solid wastes
See Surface equipment
See Waste disposal
See Waste heat
See Waste management
See Waste storage
See Waste transportation
See Waste water
See Wastes
See Water
See Water pollution

Waste disposal

BT1 Waste management
BT2 Management
NT1 Stack disposal
NT1 Surface disposal
NT1 Underground disposal
RT Brine treatment
RT Disposal formations
RT Disposal wells
RT Fault activation
RT Gaseous wastes
RT Gravel packing
RT Injection wells
RT Liquid wastes
RT Radioactive wastes
RT Saline aquifers
RT Salt deposits
RT Solid wastes
RT Surface equipment
RT Suspended solids
RT Waste water
RT Wastes
RT Water pollution

Waste heat

BT1 Wastes
RT Aquaculture
RT Thermal effluents
RT Thermal pollution

Waste injection

RT Injectivity
RT Injectability
RT Injection pumps

Waste management

BT1 Management
NT1 Waste disposal
NT1 Waste processing
NT1 Waste storage
NT1 Waste transportation
RT Radioactive wastes
RT Recovery processes
RT Wastes

Waste processing

BT1 Processing
BT1 Waste management
BT2 Management
NT1 Materials recovery
RT Liquid wastes
RT Radioactive wastes
RT Recovery processes
RT Scrubbers

Waste storage

BT1 Waste management
BT2 Management

Waste transportation

BT1 Waste management
BT2 Management

Waste treatment

Use Waste processing

Waste water

BT1 Liquid wastes
BT2 Wastes
RT Waste disposal
RT Water
RT Water pollution

Waste water disposal

Use Waste water
Use Waste disposal

Wastes

NT1 Gaseous wastes
NT1 Liquid wastes
NT1 Radioactive wastes
NT1 Solid wastes
NT1 Waste heat
RT Pollution
RT Recovery processes
RT Waste disposal
RT Waste management
RT Water pollution
Also see Dissolved solids
Also see Gases
Also see Ground water
Also see Mineral wastes
Also see Surface waters
Also see Waste management
Also see Water

Water

NT1 Brackish water
NT1 Drinking water
NT1 Fresh water
NT1 Rain water
NT1 Salt water
RT Atmospheric precipitations
RT Ground water
RT Hydrates
RT Hydrosphere
RT Jets
RT Liquid wastes
RT Steam
RT Subsurface waters
RT Surface waters
RT Waste water
RT Water pollution
RT Water quality
RT Water requirements
RT Water resources
RT Water vapor
Also see Air monitoring
Also see Aquifers
Also see Artesian water
Also see Brines
Also see Capillary water
Also see Connate water
Also see Dewatering
Also see Dissolved gases
Also see Fluid withdrawal
Also see Free water
Also see Gas saturation
Also see Ground water
Also see Ground water recharge
Also see Hot water
Also see Hot water heating
Also see Hot water systems
Also see Hydraulic fracturing
Also see Hygroscopic water
Also see Interstitial water
Also see Jets
Also see Juvenile water
Also see Legal aspects
Also see Meteoric water
Also see Oil production
Also see Oil saturation
Also see Oil wells
Also see Overdraft
Also see Pollution control equipment
Also see Rain
Also see Reservoir engineering
Also see Reservoir rocks

Geopressured Geothermal Bibliography

- Also see Salinity
- Also see Sandstone
- Also see Sea water
- Also see Seas
- Also see Solutions
- Also see Steam
- Also see Subsurface waters
- Also see Surface waters
- Also see Vadose water
- Also see Waste disposal
- Also see Waste water
- Also see Water analysis
- Also see Water influx
- Also see Water management
- Also see Water monitoring
- Also see Water pollution abatement
- Also see Water pollution control
- Also see Water production
- Also see Water quality
- Also see Water requirements
- Also see Water reservoirs
- Also see Water resources
- Also see Water springs
- Also see Water table
- Also see Water treatment
- Also see Water vapor

- Water analysis**
 - BT1 Analysis
 - RT Air analysis
 - RT Dissolved gases
 - RT Dissolved solids
 - RT Odor
 - RT Water monitoring
 - RT Water pollution

- Water conditioning**
 - Use Water treatment

- Water entry**
 - RT Ground water recharge
 - RT Water production
 - See Encroachment (water)
 - See Intrusion

- Water fracturing**
 - Use Hydraulic fracturing

- Water inflow**
 - Use Water influx

- Water influx**
 - RT Aquifers
 - RT Injection
 - RT Leakage

- Water jets**
 - Use Jets

- Water level**
 - Use Water table

- Water management**
 - BT1 Management
 - RT Ground water
 - RT Irrigation
 - RT Water resources

- Water monitoring**
 - BT1 Monitoring
 - RT Air monitoring
 - RT Water analysis
 - RT Water pollution

- Water pollution**
 - BT1 Pollution
 - RT Environmental effects
 - RT Fouling
 - RT Waste disposal
 - RT Waste water
 - RT Wastes
 - RT Water
 - RT Water analysis
 - RT Water monitoring
 - RT Water pollution abatement
 - RT Water pollution control
 - RT Water quality

- Water pollution abatement**
 - BT1 Abatement
 - RT Pollution control equipment
 - RT Water pollution
 - RT Water pollution control

- Water pollution control**
 - BT1 Pollution control
 - BT2 Control
 - RT Water pollution
 - RT Water pollution abatement

- Water production**
 - BT1 Production
 - RT Formation testing
 - RT Oil production
 - RT Production testing
 - RT Water entry
 - RT Well testing

- Water purification**
 - Use Water treatment

Water quality

RT Drinking water
 RT Irrigation
 RT Water
 RT Water pollution
 RT Water treatment

Water recovery

Use Water production

Water requirements

RT Water
 RT Water resources

Water reservoirs

BT1 Surface waters
 NT1 Cooling ponds
 RT Basins
 RT Fresh water
 RT Lakes
 RT Reservoir engineering
 RT Water resources

Water resources

BT1 Resources
 RT Ground water
 RT Rain water
 RT Subsurface waters
 RT Surface waters
 RT Water
 RT Water management
 RT Water requirements
 RT Water reservoirs
 RT Water rights

Water rights

RT Legal aspects
 RT Water resources

Water saturation

RT Gas saturation
 RT Oil saturation
 RT Reservoir rocks

Water springs

NT1 Mineral springs
 NT1 Thermal springs
 RT Aquifers
 RT Artesian wells
 RT Ground water
 RT Water table

Water table

RT Aquifers
 RT Drawdown
 RT Ground water
 RT Ground water recharge
 RT Vadose water
 RT Water springs

Water table aquifers

Use Aquifers

Water treatment

RT Desalination
 RT Water quality

Water vapor

BT1 Vapors
 BT2 Gases
 RT Steam
 RT Water

Waters

See Atmospheric precipitations
 See Coastal waters
 See Environment
 See Flashing
 See Geothermal fluids
 See Hydrogeology
 See Hydrothermal systems
 See Oceanography
 See Plankton
 See Salt water
 See Seas
 See Shores
 See Subsurface reservoirs
 See Subsurface waters
 See Surface waters
 See Thermal effluents
 See Thermal waters
 See Water

Wave

See Wave propagation

Wave propagation

Geopressured Geothermal Bibliography

Waves

See Earthquakes
See Explosions
See Ground motion
See Rayleigh waves
See Seismic effects
See Seismic events
See Seismic P waves
See Seismic S waves
See Seismic waves
See Seismology
See Sound velocity
See Sound waves

Weather

RT Atmospheric precipitations
RT Climates
RT Hurricanes
RT Meteorology
RT Seasons
RT Storms
RT Wind

Weeks

See Weeks Island

Weeks Island

BT1 Iberia Parish
BT2 Louisiana

Well

See Acidization
See Bottom hole pressure
See Bottom hole temperature
See Directional drilling
See Downhole pumps
See Downhole sampling
See Drawdown
See Drilling
See Drills
See Explosive stimulation
See Geopressured wells
See Geopressured zones
See Geothermal fields
See Geothermal wells
See Hole diameter
See Hydraulic fracturing
See Monitoring
See Natural gas fields
See Observation wells
See Oil fields
See Oil wells
See Plugging
See Reaming
See Reservoir properties
See Rock drilling
See Subsurface reservoirs
See Well casings
See Well cementing
See Well characteristics
See Well completion
See Well data
See Well design
See Well drilling
See Well head pressure
See Well head temperature
See Well information systems
See Well interference
See Well logging
See Well monitoring
See Well stimulation
See Wellheads
See Wells

Well acidizing

Use Acidization

Well casings

RT Casing programs
RT Flow string
RT Pipes
RT Well design
RT Well drilling
RT Wells

Well cementing

RT Drilling
RT Well design

Well characteristics

NT1 Bottom hole temperature
NT1 Bottom hole pressure
NT1 Well head temperature
NT1 Well head pressure
RT Reservoir properties
RT Reservoir temperature
RT Temperature logging
RT Well data

Well completion

RT Casing programs
RT Formation damage
RT Natural gas wells
RT Oil wells
RT Well testing
RT Well data
RT Well design
RT Well drilling
RT Wellheads
RT Wireline operation

Well data

BT1 Information
RT Bottom hole pressure
RT Bottom hole temperature
RT Downhole sampling
RT Production decline curve
RT Reservoir properties
RT Well characteristics
RT Well completion
RT Well head pressure
RT Well head temperature
RT Wells

Well design

BT1 Design
RT Disposal formations
RT Disposal wells
RT Downhole pumps
RT Drilling equipment
RT Well casings
RT Well cementing
RT Well completion

Well drilling

BT1 Drilling
NT1 Deep drilling
NT1 Geothermal drilling
NT1 Oil drilling
NT1 Rotary drilling
RT Blowouts
RT Boreholes
RT Directional drilling
RT Drill bits
RT Drill collars
RT Drill cores
RT Drilling fluids
RT Drilling rigs
RT Drills
RT Geothermal wells
RT MWD systems
RT Reaming
RT Rock drillability
RT Rock drillability
RT Rock drilling
RT Subterrene penetrators
RT Well casings
RT Well completion
RT Well logging

Well head pressure

BT1 Well characteristics
RT Well data
RT Wells

Well head temperature

BT1 Well characteristics
RT Well data
RT Wells

Well heads

Use Wellheads

Well hole diameter

Use Hole diameter

Well information systems

BT1 Information systems
RT Monitoring
RT Reservoir description
RT Well monitoring

Well interference

RT Observation wells
RT Reservoir properties
RT Subsurface reservoirs
RT Well spacing
RT Wells

Geopressured Geothermal Bibliography

Well logging

BT1 Equipment
RT Coal deposits
RT Geothermal exploration
RT Natural gas deposits
RT Petroleum deposits
RT Well logging

Well logging

NT1 Caliper logging
NT1 Cement bond logging
NT1 Dipmeter logging
NT1 Electrical logging
NT1 Gamma ray logging
NT1 Gravity logging
NT1 Inductive logging
NT1 Magnetic logging
NT1 Microresistivity
NT1 Mud logging
NT1 Neutronal logging
NT1 Nuclear magnetic logging
NT1 Production logging
NT1 Radioactivity logging
NT1 Resistivity logging
NT1 Sonic logging
NT1 SP logging
NT1 Temperature logging
RT Boreholes
RT Cuttings
RT Drill cores
RT Formation testing
RT Geophysical surveys
RT Measuring instruments
RT MWD systems
RT Petroleum geology
RT Recording systems
RT Reservoir description
RT Well logging equipment
RT Well testing
RT Well drilling
RT Wells
RT Wireline operation

Well logs

Use Well logging

Well monitoring

BT1 Monitoring
RT Well information systems

Well plugging

Use Plugging

Well pressure

Use Bottom hole pressure

Well pumps

Use Downhole pumps

Well reaming

Use Reaming

Well shooting

Use Explosive stimulation

Well spacing

RT Drawdown
RT Geopressured wells
RT Geopressured zones
RT Geothermal fields
RT Geothermal wells
RT Natural gas fields
RT Oil fields
RT Oil wells
RT Well interference
RT Wells

Well stimulation

BT1 Reservoir engineering
BT2 Engineering
NT1 Explosive stimulation
RT Acidization
RT Hydraulic fracturing
RT Permeability restoration
RT Plugging
RT Wells

Well temperature

Use Bottom hole temperature

Well testing

NT1 Drill stem testing
NT1 Production testing
RT Back pressure
RT Bottom hole temperature
RT Formation testing
RT Gas production
RT Observation wells
RT Oil produciton
RT Production rate
RT Pumping
RT Reservoir engineering
RT Water production
RT Well completion
RT Well logging
See Downhole testing

Wellhead prices

RT Natural gas wells
RT Oil wells

Wellheads

RT Geopressured wells
 RT Geothermal wells
 RT Natural gas wells
 RT Oil wells
 RT Well completion
 RT Wells

Wells

NT1 Abandoned wells
 NT1 Deep wells
 NT1 Exploratory wells
 NT1 Geothermal wells
 NT1 Injection wells
 NT1 Natural gas wells
 NT1 Observation wells
 NT1 Oil wells
 NT1 Producing wells
 RT Blowouts
 RT Boreholes
 RT Bottom hole pressure
 RT Bottom hole temperature
 RT Circulation
 RT Dewatering
 RT Drilling
 RT Hole diameter
 RT Lost circulation
 RT Pumping
 RT Well casings
 RT Well data
 RT Well head pressure
 RT Well head temperature
 RT Well interference
 RT Well logging
 RT Well spacing
 RT Well stimulation
 RT Wellheads
 Also see Artesian basins
 Also see Artesian water
 Also see Artificial recharge
 Also see Directional
 drilling
 Also see Disposal wells
 Also see Gas production
 Also see Geopressured wells
 Also see Ground subsidence
 Also see Hot dry rock
 systems
 Also see Injection pumps
 Also see Interstitial water
 Also see Natural gas
 Also see Oil production
 Also see Petroleum
 Also see Water springs
 Also see Well completion
 Also see Well design
 Also see Well drilling

Wells of opportunity**West**

See German Federal Republic
 See West Indies
 See West Virginia

West Germany

Use German Federal Republic

West Indies**West Virginia**

BT1 USA
 BT2 North America

Wet

See Hot water systems

Wet steam systems

Use Hot water systems

Wilcox

See Louisiana
 See Mississippi
 See Texas

Wilcox Formation

RT Louisiana
 RT Mississippi
 RT Texas

Wild

See Wild animals

Wild animals

BT1 Animals

Wildcat

See Exploratory wells

Wildcat wells

Use Exploratory wells

Willacy

See Willacy County

Willacy County

BT1 Texas
 BT2 Gulf Coast

Geopressured Geothermal Bibliography

Wind

RT Air
RT Climates
RT Hurricanes
RT Meteorology
RT Storms
RT Weather
Also see Wind energy
Also see Wind power plants

Wind energy

BT1 Energy
RT Wind power plants

Wind power

Use Wind energy

Wind power plants

BT1 Power plants
RT Wind energy

Wireline operation

RT Well completion
RT Well logging

Withdrawal

See Fluid withdrawal
See Geothermal fluids
See Ground water
See Overdraft

Working

See Heat exchangers
See Personnel
See Safety
See Thermodynamic cycles
See Working fluids

Working conditions

RT Personnel
RT Safety

Working fluids

BT1 Fluids
RT Energy conversion
RT Heat exchangers
RT Hydrodynamics
RT Thermodynamic cycles
RT Turbines

Wyoming

BT1 USA
BT2 North America
NT1 Recluse Field
RT Yellowstone National Park

Xenon

BT1 Rare gases
BT2 Nonmetals

Yellowstone

See Yellowstone National Park

Yellowstone National Park

BT1 Public lands
BT1 USA
BT2 North America
RT Idaho
RT Montana
RT Wyoming

Yield

See Energy balance
See Energy consumption
See Energy demand
See Energy sources
See Energy storage
See Energy transfer
See Energy yield
See Net energy
See Productivity

Zapata Fairway

BT1 Texas
BT2 USA
BT3 North America

Zealand

See New Guinea
See New Zealand

Zeolites

BT1 Silicate minerals
BT2 Minerals
NT1 Mordenite
NT1 Wairakite

Zinc

BT1 Metals
BT2 Elements

Zonation

RT Biostratigraphy
RT Stratigraphy

Zones

See Fault zones
See Faults
See Geopressured zones
See Plate tectonics
See Rift valleys
See Submarine trenches

Zoning

BT1 Regulations
RT Industry
RT Land use
RT Planning
RT Urban areas

2-methylpropane

BT1 Alkanes
BT2 Hydrocarbons

Geopressured Geothermal Bibliography

Geopressured Geothermal Bibliography

10.0 INDEX

Abandoned wells 11
Abatement 11
Abnormal 11
Abnormal formation pressure 11
Abnormal pressure 11
Abrasion 11
Absorption 11
Absorption (chemical) 11
Absorption spectroscopy 11
Abstract 11
Abstracts 11
Abundance 11
Acadia 11
Acadia Parish 11
Accidents 11
Accumulation 11
Accumulation rate 11
Accuracy 11
Acid 11
Acid treatment 11
Acidification 12
Acidity 12
Acidization 12
Acidizing 12
Acoustic 12
Acoustic logging 12
Acoustic monitoring 12
Acoustic velocity 12
Acoustic waves 12
Acquisition 12
Actinides 12
Activation 12
Active 12
Active faults 12
Activity 12
Adjustment 12
Administration 12
Adsorption 12
Adularia 12
AEC 20
Aerial 12
Aerial prospecting 12
Aerial surveys 12
Africa 12
Age 12
Age estimation 12
Agency 12
Ages 12
Agreements 12
Agriculture 13
Air 13
Air analysis 13
Air cleaning 13
Air conditioning 13
Air ejectors 13
Air monitoring 13
Air pollution 13
Air pollution abatement 13
Air pollution control 13
Air pollution monitors 13
Air quality 13
Alabama 14
Alamos 14
Alaska 14
Albite 14
Algorithms 14
Alkali 14
Alkali metals 14
Alkaline 14
Alkaline earth metals 14
Alkalinity 14
Alkanes 14
Allocations 14
Alloys 14
Alluvial 14
Alluvial deposits 14
Alluvium 14
Alteration 14
Altitude 14
Aluminum 14
Aluminum inorganic compounds 14
Alunite 15
America 15
Ammonia 15
Amorphous 15
Amorphous state 15
Amounts 15
Amphiboles 15
Amphibolite 15
Anadarko 15
Anadarko Basin 15
Analysis 15
Andesine 15
Andesite 15
Andesites 15
Andreas 16
Anhydrite 16
Animal 16
Animal shelters 16
Animals 16
Anions 16
Anisotropy 16
Anorthosite 16
Anthropogenic 16
Anthropogenic occurrence 16
Anticlines 16
Anticlinoria 16
Antifoulants 16
Antimony 16
Apartment 16

Geopressured Geothermal Bibliography

Apartment buildings 16
Aphanite 16
Aphanitic 16
Aphanitic rocks 16
Appalachia 16
Applications 16
Aquaculture 16
Aquatic 16
Aquatic ecosystems 16
Aquatic habitats 17
Aquatic organisms 17
Aqueous 17
Aqueous solutions 17
Aquiclude 17
Aquiculture 17
Aquifer 17
Aquifer rehabilitation 17
Aquifer tests 17
Aquifers 17
Aquitards 17
Arabian 17
Arabian Gulf 17
Arabian Sea 17
Arbitration 17
Arcs 17
Arctic 17
Arctic regions 17
Areal 17
Areal geology 18
Areas 18
Argillaceous rocks 18
Argon 18
Arizona 18
Arkansas 18
Arsenic 18
Artesian 18
Artesian aquifers 18
Artesian basins 18
Artesian pressure 18
Artesian water 18
Artesian wells 18
Artificial 18
Artificial recharge 18
Asia 18
Aspects 18
Assessment 19
Assignments 19
Associated 19
Associated gases 19
Astatine 19
Atlantic 19
Atlantic Ocean 19
Atmosphere 19
Atmosphere (Earth) 19
Atmospheric 19
Atmospheric pollution 19
Atmospheric precipitations 19
Atomic 19
Attitudes 19
Austin Bayou Prospect 19
Australasia 19
Australia 19
Automatic 19
Automatic data processing 19
Availability 19
Back 20
Back pressure 20
Bacteria 20
Balance 20
Balance (energy) 20
Bar 20
Barite 20
Barium 20
Barium inorganic compounds 20
Barium sulfates 20
Barrel 20
Barrier 20
Barriers 20
Basalt 20
Baseline Ecology 20
Basicity 20
Basin 20
Basins 20
Batholiths 20
Bays 20
Bearings 20
Bed 20
Bed thickness 20
Benefit 21
Benioff 21
Benioff zones 21
Beryllium 21
Bibliographies 21
Binary 21
Binary cycle power generation 21
Binary cycles 21
Binary fluid systems 21
Biological 21
Biological effects 21
Biology 21
Biomass 21
Biosphere 21
Biostratigraphy 21
Biotite 21
Biotope 21
Bismuth 21
Bits 21
Block 21
Blocks 21
Blowout 22
Blowout preventers 22
Blowouts 22
Blue 22
Boilers 22
Boiling 22
Bond 22

Bop 22
Borehole 22
Borehole diameter 22
Boreholes 22
Boring 22
Borneo 22
Boron 22
Boron inorganic compounds 22
Bottom 22
Bottom hole pressure 22
Bottom hole pumps 22
Bottom hole temperature 22
Bound 22
Bound water 22
Brackish 22
Brackish water 23
Brayton 23
Brayton cycle 23
Brayton cycle power generation 23
Brayton cycle power systems 23
Brazoria 23
Brazoria County 23
Brewster 23
Brewster County 23
Brine 23
Brine disposal 23
Brine treatment 23
Brines 23
Brittleness 23
Bromides 23
Bromine 23
Bromine inorganic compounds 23
Brooks 23
Brooks County 23
Budget 23
Budgets 24
Buildings 24
Buildup 24
Bulk 24
Bulk density 24
Bureau 24
Bureau of Reclamation 24
Burial 24
Burial depth 24
By-products 24
Cadmium 24
Calcasieu 24
Calcasieu Parish 24
Calcite 24
Calcium 24
Calcium carbonates 24
Calcium chlorides 24
Calcium inorganic compounds 24
Calcium sulfates 25
Calculation 25
Calculation methods 25
Calculations 25
Caldera 25
Calibration 25
California 25
Caliper 25
Caliper logging 25
Calstic 25
Calstic ratio 25
Calstic ratio maps 25
Cambrian 25
Cambrian Period 25
Cameron 25
Cameron County 25
Cameron Fairway 25
Cameron Parish 25
Cane 25
Cap 25
Cap rock 25
Capacity 26
Capillary 26
Capillary Flow 26
Capillary pressure 26
Capillary water 26
Capital 26
Caps 26
Carbon 26
Carbon dioxide 26
Carbon inorganic compounds 26
Carbon steels 26
Carbonate 26
Carbonate minerals 26
Carbonate rocks 26
Carbonates 26
Carboniferous 26
Carboniferous Periods 26
Caribbean 26
Caribbean Sea 26
Carnot 26
Carnot cycle 26
Carpathian 26
Carpathian Basin 27
Case 27
Case histories 27
Casing programs 27
Casings 27
Caspian 27
Caspian Basin 27
Caspian Sea 27
Catagenesis 27
Cations 27
Cavitation 27
Cavitation erosion 27
Cells 27
Cement 27
Cement bond logging 27
Cementing 27
Cenozoic 27
Cenozoic Era 27
Central 27
Central America 27

Geopressured Geothermal Bibliography

Central heating plants 27
Cerro 27
Cerro Prieto 27
Cerro Prieto Geothermal Field 27
Cesium 27
Chalcedony 28
Chalcopyrite 28
Characteristics 28
Charges 28
Charging 28
Charts 28
Chemical 28
Chemical analysis 28
Chemical analysis methods 28
Chemical composition 29
Chemical effluents 29
Chemical equilibrium 29
Chemical explosions 29
Chemical explosives 29
Chemical properties 29
Chemical reactions 29
Chemical treatment 29
Chemically 29
Chemically precipitated rocks 29
Chemisorption 29
Chemistry 29
Chert 29
China 29
Chlorides 29
Chlorine 29
Chlorine inorganic compounds 29
Chlorite 29
Chlorite minerals 29
Chocolate Bayou Geothermal Field 30
Chromatography 30
Chromium 30
Circulating 30
Circulating rate 30
Circulation 30
Circulation rate 30
Cities 30
City 30
Classification 30
Clastic 30
Clastic rocks 30
Clay 30
Clay mineralogy 30
Clay minerals 30
Cleaning 30
Climates 30
Closed 30
Closed-cycle systems 30
Co-generation 30
Coal 31
Coal deposits 31
Coal reserves 31
Coalinga 31
Coast 31
Coast ranges 31
Coastal 31
Coastal regions 31
Coastal waters 31
Coatings 31
Codes 31
Coefficient 31
Coefficient of thermal expansion 31
Collars 31
Collecting 31
Collecting tanks 31
Colorado 31
Colorado County 31
Colorado Fairway 31
Colorimetry 31
Combined 31
Combined cycle power generation 31
Combined cycle power plants 31
Combined cycles 32
Commercial 32
Commercial buildings 32
Commercialization 32
Commission 32
Communities 32
Compaction 32
Comparative 32
Comparative evaluations 32
Completion 32
Completion (wells) 32
Compliance 32
Composition 32
Compounds 32
Compressibility 33
Compression 33
Compressors 33
Computer 33
Computer calculations 33
Computer codes 33
Computer programming 33
Computer programs 33
Computerized simulation 33
Computers 33
Concentration 33
Concentration (<0.01 molal) 33
Concentration (>1.0 molal) 33
Concentration (infinite dilution) 33
Concentration (0.01-0.10 molal) 33
Concentration (0.10-1.0 molal) 33
Concentration dependence 33
Concordant 33
Concordant intrusions 33
Condensates 33
Condensers 33
Conditioning 34
Conditions 34

Conduction 34
Conductivity 34
Conferences 34
Confined 34
Confined aquifers 34
Confined ground water 34
Congressional 34
Congressional hearings 34
Connate 34
Connate water 34
Conservation 34
Conservation (energy) 34
Conservation (resource) 34
Consolidation 34
Constant 34
Constraints 34
Construction 34
Consumption 34
Consumption rates 34
Contained 34
Contained explosions 34
Contamination 34
Contemporaneous 34
Contemporaneous faults 34
Content 34
Content analysis 35
Continental 35
Continental crust 35
Continental drift 35
Continental shelf 35
Continental slopes 35
Continents 35
Contour 35
Contour maps 35
Contracts 35
Control 35
Convection 35
Convection cells 35
Convective 35
Conventions 35
Conversion 36
Cooling 36
Cooling ponds 36
Cooling systems 36
Cooling towers 36
Copper 36
Copper pyrites 36
Core 36
Core (earth) 36
Core barrel 36
Cores 36
Coring 36
Coring equipment 36
Corpus Christi Fairway 36
Correlation 36
Corrosion 37
Corrosion control 37
Corrosion inhibitors 37
Corrosion monitoring 37
Corrosion products 37
Corrosion protection 37
Corrosion resistance 37
Corrosive 37
Corrosive effects 37
Coso 37
Coso Hot Springs KGRA 37
Cost 37
Cost benefit analysis 37
Costs 37
County 38
Courts 38
Cracks 38
Creep 38
Cretaceous 38
Cretaceous Period 38
Crevice 38
Crevice corrosion 38
Cristobalite 38
Crops 38
Cross 38
Cross sections 38
Crude 38
Crude oil 38
Crust 38
Crust (earth) 38
Crystal 38
Crystal structures 38
Crystallization 38
Crystallography 39
Crystals 39
Culberson 39
Culberson County 39
Cultivation 39
Cultivation techniques 39
Cultural resources 39
Culture 39
Current 39
Curves 39
Cuttings 39
Cuttings analysis 39
Cycle 39
Cycles 39
Czechoslovakia 39
Damage 39
Data 40
Data acquisition 40
Data acquisition systems 40
Data analysis 40
Data compilation 40
Data processing 40
Datum 40
Datum pressure 40
Davis 40
Decline 40
Decomposition 40
Deep 40

Geopressured Geothermal Bibliography

Deep drilling 40
Deep wells 40
Deformation 40
Deg 40
Dehydration 40
Delaware 40
Delaware Basin 40
Deltas 41
Demand 41
Demineratization 41
Democratic 41
Demography 41
Demonstration 41
Demonstration plants 41
Demonstration programs 41
Density 41
Density gradients 41
Department 41
Department of energy 41
Dependence 41
Depletion 41
Depletion (ground water) 41
Depletion (resource) 41
Deposition 41
Deposition rate 42
Depositional 42
Depositional environment 42
Depositional faults 42
Deposits 42
Deposits (geological) 42
Depth 42
Deregulation 42
Desalination 42
Descaling 42
Description 42
Design 42
Desulfurization 42
Detection 42
Determination 42
Development 42
Devonian 42
Devonian Period 42
Dewatering 43
DeWitt County 43
DeWitt Fairway 43
Diabase 43
Diagenesis 43
Diagrams 43
Diameter 43
Diapirism 43
Diapirs 43
Diastrophism 43
Dickite 43
Dielectric 43
Dielectric constant 43
Differential 43
Differential equations 43
Differential pressure 43
Diffusion 43
Diffusion coefficient 43
Diffusivity 43
Dike 43
Dike intrusions 43
Dikes 43
Dilute 43
Dilute solutions 43
Dilution 43
Dimensions 44
Dioxide 44
Dip 44
Dip logging 44
Dipmeter 44
Dipmeter logging 44
Direct 44
Direct energy utilization 44
Directional 44
Directional drilling 44
Directory 44
Discharge 44
Discharge rate 44
Discordant 44
Discordant intrusions 44
Dispersions 44
Displacements 44
Disposal 44
Disposal formations 44
Disposal wells 44
Dissolved 45
Dissolved gases 45
Dissolved salts 45
Dissolved solids 45
Distance 45
Distribution 45
District 45
District cooling 45
District heating 45
Document 45
Document types 45
Documentation 45
DOE 48
Dolomite 45
Dolomite mineral 45
Dolomite rocks 45
Domes 46
Domestic 46
Domestic animals 46
Dominated 46
Downhole 46
Downhole pressure 46
Downhole pumps 46
Downhole sampling 46
Downhole temperature 46
Drainage 46
Drainage systems 46
Drawdown 46
Drawings 46

Drift 46
Drill 46
Drill bits 46
Drill collars 46
Drill cores 46
Drill holes 46
Drill pipes 46
Drill stem testing 46
Drillability 46
Drilling 47
Drilling equipment 47
Drilling fluid flow rate 47
Drilling fluids 47
Drilling muds 47
Drilling rate 47
Drilling rigs 47
Drills 47
Drinking 47
Drinking water 47
Drive mechanism 47
Drop 47
Dry 47
Dry rock systems 47
Dry rocks 47
Dry steam systems 47
Duval Fairway 47
Earth 48
Earth atmosphere 48
Earth core 48
Earth crust 48
Earth current surveys 48
Earth interior 48
Earth mantle 48
Earth movements 48
Earth penetrators 48
Earth planet 48
Earth planetary structure 49
Earth structure 49
Earthquakes 49
Earths 49
East 49
East Germany 49
East Mesa 49
East Mesa Geothermal Field 49
East Mesa KGRA 49
Ecology 49
Economic 49
Economic analysis 49
Economic geology 49
Economic impact 49
Economic policy 49
Economics 50
Ecosystems 50
Edna Delcambre No. 1 Well 50
Education 50
Effects 50
Efficiency 50
Effluents 50
Effluents (chemical) 50
Effluents (gaseous) 50
Effluents (liquid) 50
Effluents (thermal) 50
Ejectors 51
El Paso County 51
El Salvador 51
Elastic 51
Elastic properties 51
Elasticity 51
Elastomers 51
Electric 51
Electric generators 51
Electric 51
Electric conductivity 51
Electric heating 51
Electric potential 51
Electric power 51
Electric power generation 51
Electric power industry 51
Electric power plants 51
Electric resistivity 51
Electric utilities 51
Electrical 51
Electrical conductivity 51
Electrical equipment 51
Electrical exploration 51
Electrical logging 51
Electrical properties 52
Electrical resistivity 52
Electrical surveys 52
Electrodialysis 52
Electrolysis 52
Electromagnetic 52
Electromagnetic radiation 52
Electromagnetic surveys 52
Elements 52
Elevated 52
Elevated concentration 52
Elevated pressure 52
Elevated temperature 52
Elongation 52
Embayment 52
Emission 52
Emission spectroscopy 52
Empirical 52
Empirical equations 52
Employment 52
Energy 53
Energy accounting 53
Energy balance 53
Energy conservation 53
Energy consumption 53
Energy conversion 53
Energy demand 53
Energy policy 53
Energy potential 53
Energy Recovery 54

Geopressured Geothermal Bibliography

Energy Research and Development
Administration 54
Energy reserves 53
Energy resources 53
Energy source development 54
Energy sources 54
Energy storage 54
Energy supplies 54
Energy transfer 54
Energy yield 54
Enforcement 54
Engineering 54
Engineering geology 54
Engineering properties 54
Enhanced 54
Enhanced recovery 54
Enthalpy 54
Environment 55
Environmental 55
Environmental effects 55
Environmental geology 55
Environmental impact statements 55
Environmental impacts 55
Environmental policy 55
Environmental Protection Agency 55
Eocene 55
Eocene Epoch 55
Epa 55
Epidotes 55
Epoch 55
Equations 55
Equilibrium 55
Equipment 56
Era 56
Eras 56
ERDA 58
Erosion 56
Errors 56
Estimation 56
Estuaries 56
Ethane 56
Eugene 56
Eugene Island Block 18 Field 56
Europe 56
Europium 56
Evaluation 56
Evaluations 56
Evaporation 56
Evaporators 56
Evaporites 56
Evaporitic 56
Evaporitic rocks 56
Events 56
Evolution 56
Exchange 57
Exchangers 57
Expansibility 57
Expansion 57
Expansivity 57
Expenses 57
Experimental 57
Experimental results 57
Experimental studies 57
Experimental techniques 57
Exploitation 57
Exploration 57
Exploration methods 57
Exploratory 57
Exploratory wells 57
Explosions 58
Explosive 58
Explosive stimulation 58
Explosives 58
Extraction 58
Extrusive 58
Extrusive rocks 58
Fabrication 58
Facies 58
Facies maps 58
Facilities 58
Factors 58
Failures 58
Fairfax Foster Sutter No. 2
Well 58
Fairway 58
Fairway analysis 58
Falls 58
Farm 58
Farm animals 58
Farm buildings 58
Fatigue 58
Fault 59
Fault activation 59
Fault blocks 59
Fault seals 59
Fault systems 59
Fault zones 59
Faulting 59
Faults 59
Feasibility 59
Feasibility studies 59
Features 59
Federal 59
Federal Buildings 59
Federal lands 59
Federal Republic of Germany 59
Feldspars 60
Ffg 60
Field 60
Field studies 60
Fields 60
Filtration 60
Financial incentives 60
Financing 60
Fire 60
Fire hazards 60

Fires 60
Fish 60
Fish culture 60
Fishes 61
Fissured 61
Fissured formations 61
Fissures 61
Fittings 61
Flame 61
Flame photometry 61
Flammability 61
Flash 61
Flash evaporation 61
Flashed 61
Flashed steam systems 61
Flashing 61
Flooding 61
Flooding rate 61
Floods 61
Floor 61
Florida 61
Flow 61
Flow (fluid) 61
Flow charts 61
Flow models 62
Flow rate 62
Flow string 62
Flowmeters 62
Fluid 62
Fluid disposal 62
Fluid flow 62
Fluid mechanics 62
Fluid pressure 62
Fluid properties 62
Fluid sampling 62
Fluid withdrawal 62
Fluidized bed heat exchangers 62
Fluids 63
Fluorides 63
Fluorine 63
Fluorine inorganic compounds 63
Fluorite 63
Flux 63
Fold 63
Fold systems 63
Folds 63
Food processing 63
Foraminifera 63
Forecasting 63
Formation 63
Formation damage 63
Formation fracture gradient 64
Formation fracturing 64
Formation heat 64
Formation plugging 64
Formation pressure 64
Formation testing 64
Formation thickness 64
Formation water 64
Formations 64
Fossil 64
Fossil fuel power plants 64
Fossil fuels 64
Fouling 64
Fracture 64
Fracture flow 64
Fracture properties 64
Fractured 64
Fractured formations 64
Fractured reservoirs 64
Fractures 64
Fracturing 64
Fragmental 64
Fragmental rocks 64
Franciscan 65
Franciscan Formation 65
Francium 65
Frasch 65
Frasch sulfur process 65
Free 65
Free ground water 65
Free water 65
Freezing 65
Freezing point 65
Freezing potential 65
Fresh 65
Fresh water 65
Friction 65
Frio 65
Frio Formation 65
Frost 65
Fuel 65
Fuel gas 65
Fuel leasing 65
Fuels 66
Fumaroles 66
Functional 66
Functional models 66
G codes 66
Gabbro 66
Gages 66
Galena 66
Gallium 66
Galveston 66
Galveston County 66
Gamma 66
Gamma radiation 66
Gamma ray logging 66
Gamma ray surveys 66
Gamma spectroscopy 66
Gamma-gamma logging 66
Gas 67
Gas analysis 67
Gas cap gases 67
Gas caps 67
Gas chromatography 67

Geopressured Geothermal Bibliography

Gas condensates 67
Gas ejectors 67
Gas fields 67
Gas heating 67
Gas production 67
Gas saturation 67
Gas turbine power generation 67
Gas turbine power plants 67
Gas turbines 68
Gas wells 68
Gaseous 68
Gaseous effluents 68
Gaseous wastes 68
Gases 68
Gases in solution 68
Geanticlines 68
Generation 68
Generators 68
Genesis 68
Geo 68
Geo brines 68
Geochemical 68
Geochemical surveys 68
Geochemistry 68
Geochronology 68
Geographical 68
Geographical distribution 69
Geography 69
Geohydrology 69
Geoisotherm 69
Geologic 69
Geologic age determination 69
Geologic ages 69
Geologic compaction 69
Geologic control 69
Geologic cross sections 69
Geologic deposits 69
Geologic engineering 69
Geologic environment 69
Geologic faults 69
Geologic fissures 69
Geologic models 69
Geologic processes 69
Geologic provinces 69
Geologic strata 69
Geologic structures 70
Geologic thermometers 70
Geologic times 70
Geologic traps 70
Geological 70
Geological engineering 70
Geological setting 70
Geological surveys 70
Geology 70
Geomorphology 70
Geophysical 70
Geophysical exploration 70
Geophysical surveys 71
Geophysics 71
Geopressure 71
Geopressure anomalies 71
Geopressure exploration 71
Geopressure gradients 71
Geopressure power plants 71
Geopressure resources 71
Geopressed 71
Geopressed areas 71
Geopressed fields 71
Geopressed regions 71
Geopressed reservoirs 71
Geopressed systems 71
Geopressed wells 71
Geopressed zones 71
Geostatic 71
Geostatic pressure 71
Geosynclines 71
Geotectonics 71
Geothermal 72
Geothermal areas 72
Geothermal brines 72
Geothermal drilling 72
Geothermal energy 72
Geothermal energy conversion 72
Geothermal exploration 72
Geothermal fields 73
Geothermal fluids 73
Geothermal flux 73
Geothermal gradients 73
Geothermal heat flow 73
Geothermal heating 73
Geothermal industry 73
Geothermal power plants 73
Geothermal refrigeration 73
Geothermal regions 73
Geothermal reservoirs 73
Geothermal resources 73
Geothermal space heating 73
Geothermal steam 73
Geothermal systems 73
Geothermal wells 74
Geothermometers 74
Geothermometry 74
German 74
German Democratic Republic 74
German Federal Republic 74
Germanium 74
Germany 74
Geysers 74
Geysers Geothermal Field 74
Gibbsite 74
Global 74
Global aspects 74
Gold 74
Government 74
Government policies 74
Grabens 74

Gradient 74
Gradients 75
Grande 75
Granite 75
Granites 75
Granodiorite 75
Graphic 75
Graphic methods 75
Graphics 75
Graphs 75
Gravel 75
Gravel packing 75
Gravimetry 75
Gravitation 75
Gravitation fields 75
Gravitational 75
Gravitational water 75
Gravity 75
Gravity faults 75
Gravity logging 75
Gravity surveys 75
Great 75
Great Valley 75
Greene 75
Greene County 75
Greenhouses 76
Ground 76
Ground disposal 76
Ground motion 76
Ground subsidence 76
Ground water 76
Ground water depletion 76
Ground water level 76
Ground water recharge 76
Ground water reservoirs 76
Ground water withdrawal 76
Growth 76
Growth faults 76
Guidelines 76
Guides 77
Guinea 77
Gulf 77
Gulf Coast 77
Gulf Coast Basin 77
Gulf Coastal plain 77
Gulf of Mexico 77
Gypsum 77
Habitats 77
Halide 77
Halide minerals 77
Halides 77
Halite 77
Halogens 77
Halokinesis 77
Handling 77
Handling (wastes) 77
Harris 77
Harris County 77
Harris Fairway 77
Hawaii 77
Hazards 78
Head 78
Head buildup 78
Head drawdown 78
Heads 78
Health 78
Health hazards 78
Hearings 78
Heat 78
Heat balance 78
Heat budget 78
Heat capacity 78
Heat content 78
Heat discharge 78
Heat effects 78
Heat exchangers 79
Heat extraction 79
Heat flow 79
Heat flow surveys 79
Heat flux 79
Heat insulation 79
Heat of formation 79
Heat sources 79
Heat storage 79
Heat transfer 79
Heat transmission 79
Heated 79
Heated effluents 79
Heaters 79
Heating 79
Helium 79
Hematite 79
Heterogenous 80
Heterogenous effects 80
Hexane 80
Hidalgo 80
Hidalgo County 80
High 80
High concentration 80
High pressure 80
High temperature 80
Hills 80
Histories 80
Hole 80
Hole diameter 80
Hole size 80
Holes 80
Homes 80
Hot 80
Hot dry rock systems 80
Hot dry rocks 80
Hot rocks 80
Hot springs 80
Hot water 80
Hot water heating 80
Hot water systems 80

Geopressured Geothermal Bibliography

Houses 80
Hudspeth 81
Hudspeth County 81
Human 81
Human populations 81
Hungary 81
Hurricanes 81
Hydrates 81
Hydraulic 81
Hydraulic conductivity 81
Hydraulic fracturing 81
Hydraulics 81
Hydroblasting 81
Hydrocarbons 81
Hydrodynamic 81
Hydrodynamic pressure 81
Hydrodynamics 81
Hydroelectric 81
Hydroelectric power plants 81
Hydrogen 81
Hydrogen inorganic compounds 81
Hydrogen ion concentration 81
Hydrogen sulfides 82
Hydrogeology 82
Hydrologic properties 82
Hydrology 82
Hydrolysis 82
Hydropressure 82
Hydrosphere 82
Hydrostatic 82
Hydrostatic head 82
Hydrostatic pressure 82
Hydrostatics 82
Hydrothermal 82
Hydrothermal alteration 82
Hydrothermal convective systems 82
Hydrothermal reservoirs 82
Hydrothermal stage 82
Hydrothermal systems 83
Hydroxide 83
Hydroxide ion concentration 83
Hygroscopic 83
Hygroscopic water 83
Iberia 83
Iberia Parish 83
Iceland 83
Idaho 83
Igneous 83
Igneous intrusions 83
Igneous rocks 83
Illite 83
Ilmenite 83
Impact 83
Imperial 83
Imperial County 83
Imperial Valley 83
Impermeable 83
Impermeable dry rock 83
Implementation 83
Income 84
Indexes 84
India 84
Indian 84
Indian Ocean 84
Indies 84
Indium 84
Induction 84
Induction logging 84
Industrial 84
Industrial buildings 84
Industrial heating 84
Industrial plants 84
Industry 84
Inert 84
Inert gases 84
Infinite 84
Infinite dilution 84
Inflation 84
Inflow 84
Influx 84
Information 85
Information needs 85
Information retrieval 85
Information systems 85
Infrared 85
Infrared surveys 85
Inhibitors 85
Initial 85
Initial reservoir pressure 85
Injectability 85
Injection 85
Injection pressure 85
Injection pumps 85
Injection rates 85
Injection wells 85
Injectivity 85
Injuries 85
Inorganic 86
Inorganic compounds 86
Input 86
Input wells 86
Inspection 86
Installation 86
Institutional 86
Institutional aspects 86
Instruments 86
Instruments (measuring) 86
Insulation 86
Insurance 86
Interactions 86
Interference 86
Interference tests 86
Interior 86
Interstitial 87
Interstitial fluid 87
Interstitial fluid pressure 87

Interstitial water 87
Intrusions 87
Intrusions (igneous) 87
Intrusive 87
Intrusive rocks 87
Invertebrates 87
Inverted 87
Inverted folds 87
Investment 87
Iodides 87
Iodine 87
Iodine inorganic compounds 87
Ion 87
Ion exchange 87
Ions 87
Iron 87
Iron inorganic compounds 87
Iron oxides 88
Iron pyrites 88
Irrigation 88
Island 88
Island arcs 88
Islands 88
Isobutane 88
Isochore 88
Isochore maps 88
Isogeotherm 88
Isopach 88
Isopach maps 88
Isopiestic 88
Isopiestic measurement 88
Isoporosity 88
Isoporosity maps 88
Isopressure 88
Isopressure maps 88
Isosaline 88
Isosaline maps 88
Isostasy 88
Isotherm 88
Isothermal 88
Isothermal maps 88
Isotropy 88
Italy 88
Japan 89
Jeff 89
Jeff Davis 89
Jeff Davis County 89
Jefferson 89
Jefferson Davis 89
Jefferson Davis Parish 89
Jemez 89
Jemez Mountains 89
Jets 89
Joaquin 89
Jurassic 89
Jurassic Period 89
Juvenile 89
Juvenile water 89
Kaolin 89
Kaolinite 89
Kenedy 89
Kenedy County 89
Kenedy Fairway 89
Kerogen 89
Kettleman 89
Kettleman Hills 89
Kg
 sq 89
KGRA 90
KGRAs 90
Kicks 89
Kinetic 89
Kinetic energy 89
Klamath 90
Klamath Falls 90
Klamath Falls KGRA 90
Kleberg 90
Kleberg County 90
Known 90
Known geothermal resource areas 90
Krypton 90
Laboratory 90
Laboratory equipment 90
Laboratory studies 90
Laboratory testing 90
Lafayette 90
Lafayette Parish 90
LaFourche Parish 92
Lagrange 90
Lagrange equations 90
Lakes 90
Land 90
Land leasing 91
Land ownership 91
Land pollution 91
Land pollution abatement 91
Land pollution control 91
Land reclamation 91
Land requirements 91
Land subsidence 91
Land titles 91
Land use 91
Lands 91
Larderello 91
Larderello Geothermal Field 91
LASL 95
Lateral 91
Lateral faults 91
Laterolog 91
Lava 91
Law 91
Laws 92
Lawsuits 92
Leaching 92
Lead 92
Leading 92

Geopressured Geothermal Bibliography

Leading abstract 92
Leakage 92
Leases 92
Leasing 92
Lectures 92
Legal 92
Legal aspects 92
Legislation 92
Level 92
Liabilities 92
Licenses 93
Licensing 93
Life-cycle cost 93
Limestone 93
Limnology 93
Liquid 93
Liquid dominated hydrothermal systems 93
Liquid effluents 93
Liquid flow 93
Liquid waste disposal 93
Liquid wastes 93
Liquids 93
Literature 93
Literature reviews 93
Lithification 93
Lithium 93
Lithology 93
Lithosphere 93
Lithostatic 93
Lithostatic pressure 93
Lithotope 93
Live Oak County 94
Live Oak Fairway 94
Livestock 94
Local 94
Local government 94
Location 94
Logging 94
Logging (well) 94
Logs 94
Long 94
Long Valley 94
Los 94
Los Alamos 94
Los Alamos Scientific Laboratory 94
Lost 95
Lost circulation 95
Lost Hills 95
Louisiana 95
Low 95
Low concentration 95
Low pressure 95
Low temperature 95
Lubricants 95
Lumps 95
Magma 95
Magma reservoirs 95
Magma systems 95
Magmatic 95
Magmatic water 95
Magnesium 96
Magnesium carbonates 96
Magnesium chlorides 96
Magnesium inorganic compounds 96
Magnesium sulfates 96
Magnetic 96
Magnetic induction logging 96
Magnetic logging 96
Magnetic surveys 96
Magnetotelluric 96
Magnetotelluric surveys 96
Maintenance 96
Management 96
Manganese 96
Manometers 96
Mantle 96
Mantlerock 96
Manuals 96
Mapping 96
Maps 97
Marble 97
Mariculture 97
Marine 97
Marine exploration 97
Marine geology 97
Marine surveys 97
Marine water 97
Market 97
Mary 97
Marysville 97
Marysville KGRA 97
Mass 97
Mass transfer 97
Matagorda 97
Matagorda County 97
Matagorda Fairway 97
Materials 97
Materials recovery 98
Materials testing 98
Mathematical 98
Mathematical methods 98
Mathematical models 98
Mathematics 98
Matrix 98
Matrix (rock) 98
Matter 98
Maturation 98
McAllen Ranch Geothermal Field 98
Measurement 98
Measuring 98
Measuring instruments 99
Measuring methods 99
Mechanical 99
Mechanical properties 99

Mechanics 99
Media 99
Meetings 99
Melting 99
Melting point 99
Membranes 99
Mercury 100
Mesa 100
Mesozoic 100
Mesozoic Era 100
Metals 100
Metamorphic 100
Metamorphic rocks 100
Metamorphism 100
Meteoric 100
Meteoric water 100
Meteorology 100
Methane 100
Method 100
Methods 100
Methylene 100
Methylene blue 100
Methylpropane 100
Mexico 101
Micas 101
Microcline 101
Microearthquakes 101
Microlaterologging 101
Micrologging 101
Microorganisms 101
Micropaleontology 101
Microresistivity 101
Microresistivity logging 101
Microseismicity 101
Microseisms 101
Middle 101
Middle East 101
Migration 101
Military facilities 101
Mineral 101
Mineral composition 101
Mineral deposits 101
Mineral exploration 101
Mineral production 101
Mineral recovery 101
Mineral resources 101
Mineral rights 101
Mineral springs 102
Mineral wastes 102
Mineralization 102
Mineralogy 102
Minerals 102
Miocene 102
Miocene Epoch 102
Mississippi 102
Mississippi River 102
Mississippian 102
Mississippian Period 102
Mixtures 102
Mobile 102
Mobile homes 102
Models 102
Moderate 102
Moderate concentration 102
Moderate pressure 103
Moderate temperature 103
Molal 103
Molybdenum 103
Monitoring 103
Monitoring wells 103
Monitors 103
Monitors (air pollution) 103
Mono 103
Mono-long 103
Mono-long Valley KGRA 103
Monoclines 103
Montana 103
Montgomery Fairway 103
Montmorillonite 103
Mordenite 103
Morrow 103
Morrow Formation 103
Motion 103
Mountains 103
Movements 103
Mud 104
Mud flow rate 104
Mud logging 104
Mud lumps 104
Mud volcanoes 104
Mud weight 104
Muds 104
Mudstone 104
Municipal 104
Municipal heating 104
Muscovite 104
Mutation zone 104
MWD systems 104
Nagaoka 104
Nagaoka Plain 104
National 104
National government 104
National organizations 104
Natural 104
Natural gas 105
Natural gas deposits 105
Natural gas fields 105
Natural gas industry 105
Natural gas liquids 105
Natural gas production 105
Natural gas wells 105
Natural occurrence 105
Natural recharge 105
Natural resources 105
Natural steam 105
Needs 105

Geopressured Geothermal Bibliography

Neogene Ephch 105
Neon 106
Net 106
Net energy 106
Net sand maps 106
Net sand thickness 106
Neutral 106
Neutral pressure 106
Neutral stress 106
Neutron 106
Neutron logging 106
Nevada 106
New Guinea 106
New Mexico 106
New Zealand 106
Newton
 sq 106
Nickel 106
Nigeria 106
Nitrogen 106
Nitrogen inorganic compounds 106
Nmr 106
NMR logging 108
Noble 106
Noise 106
Noise pollution 106
Noise pollution abatement 106
Noise pollution control 107
Nonaqueous 107
Nonaqueous solutions 107
Nonclastic 107
Nonclastic rocks 107
Noncondensable 107
Noncondensable gases 107
Noncondensable 107
Noncondensable gases 107
Nonelectrical 107
Nonelectrical applications 107
Nonmetals 107
Normal 107
Normal faults 107
Norphlet 107
Norphlet Formation 107
North 107
North America 107
North Sea 107
Nozzles 107
Nuclear 107
Nuclear energy 107
Nuclear explosions 107
Nuclear explosives 107
Nuclear logging 108
Nuclear magnetic logging 108
Nuclear magnetic resonance 108
Nuclear power 108
Nuclear power plants 108
Nueces 108
Nueces County 108
Numerical 108
Numerical analysis 108
Numerical solution 108
Numerical solutions 108
Observation 108
Observation wells 108
Obsidian 108
Occurrence 108
Ocean 108
Ocean basins 108
Ocean floor 108
Ocean ridges 108
Ocean thermal energy conversion 108
Ocean thermal power plants 108
Ocean trenches 109
Ocean water 109
Oceanic 109
Oceanic crust 109
Oceanography 109
Oceans 109
Odor 109
Office 109
Office buildings 109
Offshore 109
Offshore sites 109
Offshore surveys 109
Oil 109
Oil drilling 109
Oil fields 109
Oil production 109
Oil saturation 109
Oil shale 109
Oil wells 110
Oklahoma 110
Oligocene 110
Oligocene Epoch 110
Opal 110
Open 110
Open-cycle systems 110
Operation 110
Opinion 110
Optical 110
Optical properties 110
Optimization 110
Ordovician 110
Ordovician Period 110
Oregon 110
Organic 110
Organic compounds 110
Organic materials 110
Organic matter 110
Organisms 110
Organizations 110
Origin 110
Orthoclase 110
Osmosis 110
Osmotic 110

Osmotic pressure 111
Overburden 111
Overdraft 111
Overpressure 111
Overpressured 111
Overpressured reservoirs 111
Overturned 111
Overturned folds 111
Ownership 111
Oxidation 111
Oxidation-reduction potential 111
Oxide 111
Oxide minerals 111
Oxides 111
Oxygen 111
Oxygen inorganic compounds 111
P waves 111
Pacific 111
Pacific Ocean 111
Packing 111
Pakistan 111
Paleocene 111
Paleocene Epoch 111
Paleoecology 112
Paleomagnetism 112
Paleontology 112
Paleopressure 112
Paleozoic 112
Paleozoic Era 112
Paper 112
Paper industry 112
Parish 112
Park 112
Particles 112
Pascals 112
Paso 112
Patents 112
Pecos 112
Pegmatite 112
Penetration 112
Penetration rate 112
Penetrators 112
Pennsylvanian 112
Pennsylvanian Period 112
Pentane 112
Percent 112
Performance 113
Performance testing 113
Period 113
Periods 113
Permafrost 113
Permeability 113
Permeability barriers 113
Permeability restoration 113
Permian 113
Permian Period 113
Permits 113
Personnel 113
Petrochemical plants 113
Petroleum 114
Petroleum deposits 114
Petroleum exploration 114
Petroleum geology 114
Petroleum industry 114
Petrology 114
Ph 114
Ph adjustment 114
Ph dependence 114
Ph value 114
Phanerite 114
Phaneritic 114
Phaneritic rocks 114
Phase 114
Phase transformations 115
Phillippines 115
Phosphorus 115
Photographs 115
Photometry 115
Phreatic 115
Phreatic water 115
Physical 115
Physical properties 115
Physiography 115
Piestic 115
Piestic water 115
Piezometers 115
Piezometry 115
Pilot 115
Pilot plants 115
Pipe 115
Pipe fittings 115
Pipelines 115
Pipes 115
Pitting 115
Pitting corrosion 115
Plagioclases 116
Plain 116
Planet 116
Planetary 116
Plankton 116
Planning 116
Plants 116
Plants (industrial) 116
Plants (power) 116
Plasticity 116
Plate 116
Plate tectonics 117
Platinum 117
Pleasant Bayou No. 1 Well 117
Pleasant Bayou No. 2 Well 117
Pleistocene 117
Pleistocene Epoch 117
Pliocene 117
Pliocene Epoch 117
Plugging 117
Plutonic 117

Geopressured Geothermal Bibliography

Plutonic rocks 117
Plutonic water 117
Plutonium 117
Plutons 117
Point 117
Polar 117
Polar regions 117
Policies 117
Policy 117
Pollution 118
Pollution control 118
Pollution control equipment 118
Pollution law 118
Pollution regulations 118
Polonium 118
Polymerization 118
Polymers 118
Ponds 118
Pools 118
Populations 118
Pore 119
Pore fluid 119
Pore fluid pressure 119
Pore pressure 119
Pore water 119
Porosity 119
Porosity trends 119
Porous 119
Porous media 119
Porphyritic 119
Porphyritic rocks 119
Porphyry 119
Possibilities 119
Post 119
Post depositional process 119
Potable 119
Potable water 119
Potassium 119
Potential 119
Potential energy 119
Power 120
Power cycles 120
Power generation 120
Power plants 120
Power potential 120
Power production 120
Power range 1-10gw 120
Power range 1-10kw 120
Power range 1-10mw 120
Power range 10-100gw 120
Power range 100-1000gw 120
Power transmission 121
Precambrian 121
Precambrian Eras 121
Precipitated 121
Precipitation 121
Precipitations 121
Precipitations (atmospheric) 121
Prediction 121
Preparation 121
Presidio 121
Presidio County 121
Pressure 121
Pressure (< 1.0 E05 newton sq m) 121
Pressure (< 1.02 kg sq m) 121
Pressure (< 1.45 E01 psi) 121
Pressure (> 5.0 E07 newton sq m) 122
Pressure (> 5.1 E02 kg sq m) 122
Pressure (> 7.25 E04 psi) 122
Pressure (<1 bar) 122
Pressure (>500 bar) 122
Pressure (back) 122
Pressure (bottom hole) 122
Pressure (differential) 122
Pressure (fluid) 122
Pressure (geostatic) 122
Pressure (pore) 122
Pressure (vapor) 122
Pressure (well head) 122
Pressure (1 bar) 122
Pressure (1.0 E04-5.0 E07 Newton SQ M) 122
Pressure (1.0 E05 newton sq m) 122
Pressure (1.0 E05 pascals) 122
Pressure (1.0 E05-1.0 E07 pascals) 122
Pressure (1.01 E07-5.0 E07 pascals) 122
Pressure (1.02 kg sq m) 122
Pressure (1.02-1.02 E02 kg sq m) 122
Pressure (1.03-5.1 E02 kg sq m) 122
Pressure (1.45 E01 psi) 122
Pressure (1.45 E01-1.45 E03 psi) 122
Pressure (1.465 E03-7.252 E04 psi) 122
Pressure (1-100 bar) 122
Pressure (101-500 bar) 122
Pressure buildup 122
Pressure control 122
Pressure decline 122
Pressure dependence 122
Pressure drawdown 122
Pressure drop 123
Pressure gages 123
Pressure gradients 123
Pressure kicks 123
Pressure measurement 123

Pressure release 123
Pressure seals 123
Preventers 123
Prices 123
Prieto 123
Proceedings 123
Process 123
Process heat 123
Processes 123
Processing 123
Producing 123
Producing wells 123
Production 123
Production decline curve 123
Production logging 124
Production rate 124
Production testing 124
Productivity 124
Products 124
Profitability 124
Profits 124
Programming 124
Programs 124
Programs (computer) 124
Programs (research) 124
Propagation 124
Propagation (wave) 124
Propane 124
Properties 124
Prospecting 124
Protection 124
Protozoa 125
Provinces 125
Psi 125
Public 125
Public attitudes 125
Public buildings 125
Public health 125
Public lands 125
Public opinion 125
Public relations 125
Public utilities 125
Pumice 125
Pump 125
Pump tests 125
Pumping 125
Pumps 125
Purification 125
Pyrite 125
Pyrites 125
Pyroclastic 125
Pyroclastic rocks 125
Pyrophyllite 125
Pyroxenes 126
Qualitative 126
Qualitative chemical analysis 126
Quality 126
Quantitative 126
Quantitative chemical analysis 126
Quartz 126
Quaternary 126
Quaternary Period 126
Queen 126
Queen City Formation 126
Radiation 126
Radiators 126
Radioactive 126
Radioactive wastes 126
Radioactivity 126
Radioactivity logging 126
Radioactivity surveys 127
Radiometric 127
Radiometric surveys 127
Radium 127
Radon 127
Raft 127
Raft River 127
Raft River KGRA 127
Rain 127
Rain water 127
Range 127
Ranges 127
Rankin 127
Rankin County 127
Rankine 127
Rankine cycle 127
Rankine cycle power systems 127
Rare 127
Rare earths 127
Rare gases 127
Rate 127
Rates 128
Ratio 128
Ray 128
Rayleigh 128
Rayleigh waves 128
Reaction 128
Reaction heat 128
Reactions 128
Reactions (chemical) 128
Reaming 128
Recent 128
Recent Epoch 128
Recharge 128
Recharge wells 128
Reclamation 128
Reclamation (land) 128
Recluse 128
Recluse Field 128
Recommendations 128
Recording 128
Recording systems 128
Recovery 128
Recovery processes 129
Recreational 129
Recreational facilities 129

Geopressured Geothermal Bibliography

Redox 129
Redox potential 129
Redox reactions 129
Reduction 129
Reentry 129
Refining 129
Reflectance 129
Reflection 129
Refraction 129
Refrigeration 129
Regional 129
Regional analysis 129
Regions 129
Regolith 129
Regulations 129
Regulatory 130
Regulatory guides 130
Rehabilitation 130
Reinjection 130
Reinjection wells 130
Relations 130
Release 130
Reliability 130
Remote 130
Remote control 130
Remote sensing 130
Republic 130
Republics 130
Requirements 130
Requirements (land) 130
Requirements (water) 130
Research 130
Research programs 130
Reserves 130
Reservoir 130
Reservoir characteristics 131
Reservoir compaction 131
Reservoir description 131
Reservoir engineering 131
Reservoir fluids 131
Reservoir mechanics 131
Reservoir pressure 131
Reservoir properties 131
Reservoir rock 131
Reservoir rocks 131
Reservoir temperature 131
Reservoir thickness 131
Reservoirs 131
Reservoirs (geothermal) 131
Reservoirs (magma) 131
Reservoirs (subsurface) 131
Reservoirs (water) 131
Residential 131
Residential buildings 132
Residential structures 132
Resistance 132
Resistant 132
Resistivity 132
Resistivity exploration 132
Resistivity logging 132
Resistivity method 132
Resistivity surveys 132
Resonance 132
Resource 132
Resource assessment 132
Resource availability 132
Resource conservation 132
Resource depletion 132
Resource development 132
Resource location 132
Resource potential 132
Resources 133
Restoration 133
Results 133
Resurgent 133
Resurgent water 133
Retrieval 133
Retrofitting 133
Return 133
Return on investment 133
Revenue 133
Reverse 133
Reverse faults 133
Reversed 133
Reversed folds 133
Reviews 133
Rheology 133
Rhyolite 133
Ridges 133
Rift 133
Rift valleys 134
Rights 134
Rigs 134
Rio 134
Rio Grande 134
Rio Grande Embayment 134
Rio Grande Rift 134
Risk assessment 134
Risks 134
River 134
Rivers 134
Rock 134
Rock characteristics 134
Rock compaction 134
Rock compressibility 134
Rock deformation 135
Rock drillability 135
Rock drilling 135
Rock failures 135
Rock fluid interactions 135
Rock matrix 135
Rock mechanics 135
Rock properties 135
Rock salt 135
Rock shear 135
Rock stresses 135

Rocks 136
Rotary 136
Rotary drilling 136
Royalties 136
Rubidium 136
Rural 136
Rural areas 136
Rural populations 136
S waves 136
Safeguards 136
Safety 136
Safety engineering 136
Safety standards 136
Saint 136
Saint Mary Parish 136
Sales 136
Saline 136
Saline aquifers 137
Saline water 137
Salinity 137
Salt 137
Salt content 137
Salt deposits 137
Salt domes 137
Salt tectonics 137
Salt water 137
Salt water production 137
Salton 137
Salton Sea 137
Salts 137
Salvador 137
Samarium 137
Sampling 138
Sampling methods 138
San Andreas Fault 138
San Joaquin 138
San Joaquin Valley 138
Sand 138
Sand control 138
Sand percent maps 138
Sand pressure 138
Sand production 138
Sand shale ratio 138
Sand thickness 138
Sand trend maps 138
Sandstone 138
Sandstones 138
Saturated 138
Saturated vapor 138
Saturation 138
Scale 138
Scale composition 139
Scale monitoring 139
Scaling 139
Scaling control 139
Schist 139
Schists 139
Scientific 139
Scrubbers 139
Scrubbing 139
Sea 139
Sea bed 139
Sea coast 139
Sea floor 139
Sea floor spreading 139
Sea water 139
Seals 139
Seas 140
Seasonal 140
Seasonal variations 140
Seasons 140
Sections 140
Sediment 140
Sediment deposits 140
Sedimentary 140
Sedimentary basins 140
Sedimentary petrology 140
Sedimentary rocks 140
Sedimentary structures 140
Sedimentation 141
Sedimentation rate 141
Sedimentology 141
Sediments 141
Seismic 141
Seismic detection 141
Seismic effects 141
Seismic events 141
Seismic noise 141
Seismic p waves 141
Seismic reflection surveys 141
Seismic refraction surveys 141
Seismic s waves 141
Seismic surveys 141
Seismic waves 142
Seismicity 142
Seismographs 142
Seismology 142
Selection 142
Selenium 142
Self 142
Self potential 142
Self potential logging 142
Self potential surveys 142
Semimetals 142
Semipermeable 142
Semipermeable membranes 142
Sensing 142
Sensitivity 142
Separation 142
Separation processes 142
Separators 143
Sericite 143
Serpentine 143
Serpentines 143
Setting 143
Shale 143

Geopressured Geothermal Bibliography

Shale control 143
Shale diapirs 143
Shale treatment 143
Shale water influx 143
Shear 143
Shear properties 143
Shear strength 143
Shear stress 143
Shear waves 143
Shelf 143
Shelters 143
Shock 143
Shock waves 143
Shooting 143
Shores 143
Shortite 144
Shut 144
Shut in pressure 144
Siderite 144
Silica 144
Silica minerals 144
Silicate 144
Silicate minerals 144
Silicon 144
Sill 144
Sill intrusions 144
Silt 144
Silt production 144
Siltstone 144
Silurian 144
Silurian Period 144
Silver 144
Silver inorganic compounds 144
Simulation 144
Site 144
Site preparation 144
Site selection 144
Sites 145
Size 145
Slate 145
Slip 145
Slope 145
Slope stability 145
Slopes 145
Slurry 145
Slurry packing 145
Smackover 145
Smackover Formation 145
Snow 145
Social 145
Social impact 145
Socialist 145
Socio 145
Socio-economic 145
Socio-economic factors 145
Sociology 145
Sodium 145
Sodium chlorides 145
Sodium inorganic compounds 145
Sodium minerals 145
Sodium sulfates 146
Soil 146
Soil mechanics 146
Soil warming 146
Soils 146
Solar 146
Solar energy 146
Solar energy conversion 146
Solar power plants 146
Solar sea power plants 146
Solid 146
Solid solutions 146
Solid wastes 146
Solidification 146
Solids 146
Solubility 146
Solution 146
Solution gases 146
Solutions 147
Solvents 147
Sonic 147
Sonic logging 147
Sonic velocity 147
Sound 147
Sound velocity 147
Sound waves 147
Sources 147
South 147
South America 147
South China Sea 147
Soviet 147
Soviet Union 147
Sp 147
Sp logging 147
Space 147
Space heating 147
Spacing 148
Specific 148
Specific heat 148
Specifications 148
Spectrometric 148
Spectrometric surveys 148
Spectroscopy 148
Sphalerite 148
Sphalerites 148
Spontaneous 148
Spontaneous potential logging 148
Spreading 148
Springs 148
Springs (water) 148
St Mary Parish 148
Stability 148
Stack 148
Stack disposal 148
Stage 148
Stainless 148

Stainless steels 149
Standard 149
Standard pressure 149
Standard temperature 149
Standardization 149
Standards 149
Starr 149
Starr County 149
State 149
State government 149
Statements 149
States 149
Static 149
Static pressure 149
Static reservoir pressure 149
Statistical 149
Statistical models 149
Steam 149
Steam condensers 150
Steam flashing 150
Steam generators 150
Steam heating 150
Steam power plants 150
Steam separators 150
Steam system 150
Steam turbine power generation 150
Steam turbines 150
Steels 150
Stem 150
Stimulation 150
Stock 150
Stock intrusions 150
Storage 150
Stored 150
Stored energy 150
Storms 150
Strain 150
Strain rate 151
Strains 151
Strata 151
Stratigraphic 151
Stratigraphic control 151
Stratigraphic maps 151
Stratigraphic traps 151
Stratigraphy 151
Stratosphere 151
Streams 151
Strength 151
Strength (shear) 151
Stress 151
Stress corrosion 151
Stresses 151
Strike 151
Strike slip faults 151
Strontium 152
Strontium inorganic compounds 152
Structural 152
Structural control 152
Structural features 152
Structural geology 152
Structural models 152
Structural traps 152
Structure 152
Structures 152
Structures (geologic) 152
Studies 152
Submarine 152
Submarine geology 152
Submarine trenches 152
Subnormal 152
Subnormal formation pressure 152
Subnormal pressure 152
Subpressure 152
Subsidence 152
Subsidies 153
Subsurface 153
Subsurface disposal 153
Subsurface mapping 153
Subsurface reservoirs 153
Subsurface temperature 153
Subsurface waters 153
Subterrene 153
Subterrene penetrators 153
Sugar 153
Sugar cane 153
Sulfate 153
Sulfate minerals 153
Sulfates 153
Sulfide 153
Sulfide minerals 153
Sulfides 154
Sulfur 154
Sulfur inorganic compounds 154
Superheating 154
Supersaturation 154
Supplies 154
Surface 154
Surface disposal 154
Surface equipment 154
Surface Monitoring 154
Surface properties 154
Surface temperature 154
Surface waters 154
Syppressure 154
Surveys 155
Suspended 155
Suspended solids 155
Swimming 155
Swimming pools 155
Symposia 155
Synclines 155
Synclinoria 155
Synthetic fuels 155
System 155
Systems 156
Systems analysis 156

Geopressured Geothermal Bibliography

Tabasco 156
Table 156
Tables 156
Tanks 156
Taxes 156
Technical 156
Technical specifications 156
Techniques 156
Technology 156
Technology assessment 156
Technology utilization 156
Tectonics 156
Tectonism 156
Telluric 157
Telluric current exploration 157
Telluric surveys 157
Tellurium 157
Temperature 157
Temperature (<25 deg c) 157
Temperature (>400 deg c) 157
Temperature (bottom hole) 157
Temperature (reservoir) 157
Temperature (surface) 157
Temperature (well head) 157
Temperature (101-400 deg c) 157
Temperature (25 deg c) 157
Temperature (26-100 deg c) 157
Temperature control 157
Temperature dependence 157
Temperature distribution 157
Temperature effects 157
Temperature gradients 157
Temperature inversion 157
Temperature logging 158
Temperature measurement 158
Temperature monitoring 158
Temperature surveys 158
Tenneco Fee "N" No. 1 Well 158
Tensile 158
Tensile properties 158
Tensile strength 158
Terrebonne Parish 158
Terrestrial 158
Terrestrial heat flow 158
Tertiary 158
Tertiary Period 158
Test 158
Test facilities 158
Testing 158
Tests 158
Texas 159
Texas Railroad Commission 159
Texas Water Quality Board 159
Textbooks 159
Thallium 159
Theoretical 159
Theoretical treatments 159
Thermal 159
Thermal capacity 159
Thermal conduction 159
Thermal conductivity 159
Thermal diffusion 160
Thermal diffusivity 160
Thermal effects 160
Thermal efficiency 160
Thermal effluents 160
Thermal equilibrium 160
Thermal expansion 160
Thermal expansivity 160
Thermal exploration methods 160
Thermal gradients 160
Thermal insulation 160
Thermal logging 160
Thermal pollution 160
Thermal power plants 160
Thermal properties 160
Thermal springs 160
Thermal waters 160
Thermodynamic 160
Thermodynamic cycles 161
Thermodynamic properties 161
Thermodynamics 161
Thermoelasticity 161
Thermometers 161
Thermometry 161
Thickness 161
Thickness maps 161
Thorium 161
Thrust 161
Thrust faults 161
Tidal 161
Tidal power 161
Tidal power plants 161
Tide 161
Tigre Lagoon Geothermal Field 161
Time 161
Time dependence 161
Times 161
Tin 161
Titanium 162
Titles 162
Topographic 162
Topographic features 162
Topography 162
Topological 162
Topological mapping 162
Total 162
Total dissolved solids 162
Total flow systems 162
Towers 162
Toxicity 162
Trace 162
Trace amounts 162
Trace elements 162
Trade 162
Trans 162

Trans-pecos 162
Trans-Pecos Hot Rocks 162
Transfer 162
Transfer (energy) 162
Transfer (heat) 162
Transfer (mass) 162
Transfer pipes 162
Transformations 163
Transition 163
Transition elements 163
Transition temperature 163
Transmissibility 163
Transmission 163
Transmissivity 163
Transportation 163
Transuranium 163
Transuranium elements 163
Traps 163
Travel time 163
Treatment 163
Treatments 163
Trenches 163
Trend 163
Trend analysis 163
Trend maps 163
Trend surface analysis 163
Trends 163
Triassic 163
Triassic Period 163
Tridymite 163
Troposphere 164
Tuff 164
Tungsten 164
Turbine 164
Turbines 164
Turkey 164
Two phase 164
Two phase flow 164
Types 164
Uinta 164
Uinta basin 164
Unconfined 164
Unconfined aquifers 164
Unconfined ground water 164
Underground 164
Underground disposal 164
Underground explosions 164
Underpressure 164
Union 164
Union of Soviet Socialist
 Republics 164
United 164
United States 164
United States of America 164
Unwatering 164
Uplifts 164
Ural 165
Ural Mountains 165
Urals 165
Uranium 165
Uranium compounds 165
Urban 165
Urban areas 165
Urban populations 165
US 165
US AEC 165
US Atomic Energy Commission 165
US Bureau of Reclamation 165
US DOE 165
US EPA 165
US ERDA 165
US organizations 165
USA 165
Use 165
Uses 165
USSR 166
Utah 165
Utilities 165
Utilization 165
Vadose 166
Vadose water 166
Valles 166
Valles Caldera 166
Valles Caldera Geothermal
 Field 166
Valley 166
Valleys 166
Value 166
Vanadium 166
Vapor 166
Vapor (saturated) 166
Vapor condensers 166
Vapor dominated systems 166
Vapor generators 166
Vapor pressure 166
Vapor separators 166
Vapor solubility 166
Vaporizing 166
Vapors 167
Variations 167
Velocity 167
Velocity of sound 167
Vermillion 167
Vermillion Parish 167
Vicksburg 167
Vicksburg Formation 167
Virginia 167
Viscosity 167
Vitrinite 167
Volatility 167
Volcanic 167
Volcanic activity 167
Volcanic regions 167
Volcanicity 167
Volcanism 167
Volcanoes 167

Geopressured Geothermal Bibliography

Volga 167
Volga River 167
Volume 167
Vulcanism 167
Wairakei 167
Wairakei Geothermal Field 168
Wairakite 168
Warm 168
Warm springs 168
Warming 168
Washing 168
Washington 168
Waste 168
Waste disposal 168
Waste heat 168
Waste injection 168
Waste management 168
Waste processing 168
Waste storage 169
Waste transportation 169
Waste treatment 169
Waste water 169
Waste water disposal 169
Wastes 169
Water 169
Water analysis 170
Water conditioning 170
Water entry 170
Water fracturing 170
Water inflow 170
Water influx 170
Water jets 170
Water level 170
Water management 170
Water monitoring 170
Water pollution 170
Water pollution abatement 170
Water pollution control 170
Water production 170
Water purification 170
Water quality 171
Water recovery 171
Water requirements 171
Water reservoirs 171
Water resources 171
Water rights 171
Water saturation 171
Water springs 171
Water table 171
Water table aquifers 171
Water treatment 171
Water vapor 171
Waters 171
Wave 171
Wave propagation 171
Waves 172
Weather 172
Weeks 172
Weeks Island 172
Well 172
Well acidizing 172
Well casings 172
Well cementing 173
Well characteristics 173
Well completion 173
Well data 173
Well design 173
Well drilling 173
Well head pressure 173
Well head temperature 173
Well heads 173
Well hole diameter 173
Well information systems 173
Well interference 173
Well logging 174
Well logs 174
Well monitoring 174
Well plugging 174
Well pressure 174
Well pumps 174
Well reaming 174
Well shooting 174
Well spacing 174
Well stimulation 174
Well temperature 174
Well testing 174
Wellhead prices 174
Wellheads 175
Wells 175
Wells of opportunity 175
West 175
West Germany 175
West Indies 175
West Virginia 175
Wet 175
Wet steam systems 175
Wilcox 175
Wilcox Formation 175
Wild 175
Wild animals 175
Wildcat 175
Wildcat wells 175
Willacy 175
Willacy County 175
Wind 176
Wind energy 176
Wind power 176
Wind power plants 176
Wireline operation 176
Withdrawal 176
Working 176
Working conditions 176
Working fluids 176
Wyoming 176
Xenon 176
Yellowstone 176

stone National Park 176
d 176
apata Fairway 176
Zealand 176
Zeolites 176

Zinc 176
Zonation 176
Zones 176
Zoning 177
2-methylpropane 177