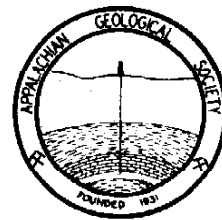
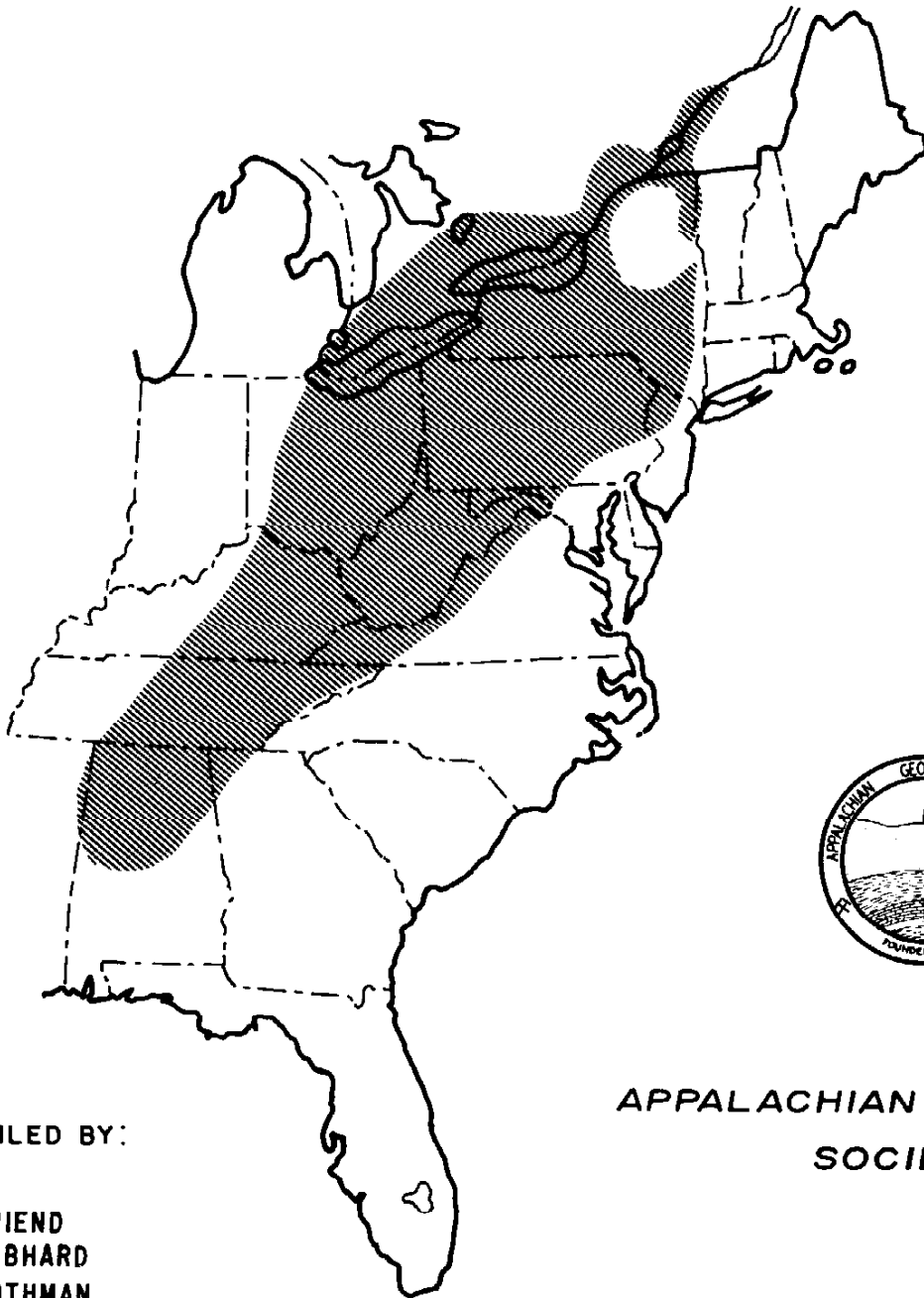


**BIBLIOGRAPHIC INDEX OF
APPALACHIAN BASIN
THESES AND DISSERTATIONS**

from 1976 through 1980



COMPILED BY:

M. FRIEND
P. GEBHARD
E. ROTHMAN
D. WAGGENER

APPALACHIAN GEOLOGICAL
SOCIETY



Appalachian Geological Society

Post Office Box 2605 • Charleston, West Virginia 25329

P R E F A C E

The Bibliographic Index of Appalachian Basin Theses and Dissertations through 1975 compiled by Dr. John M. Dennison was published by the Appalachian Geological Society (AGS) in 1977. The Index has been extremely helpful to all geoscientists who engage in geologic research. The Bibliographic Index of Appalachian Basin Theses and Dissertations from 1976 through 1980 is a continuation of the original Index.

Many people were involved in the compilation and publication of the updated Index. Dr. John Dennison of the University of North Carolina collected the lists of theses and dissertations. Mary Friend of Columbia Gas Transmission, Paul L. Gebhard of Cabot Oil & Gas, Ed Rothman of Columbia Natural Resources and Drew Waggener of Haney & White compiled the lists of theses and dissertations and organized the indexes. Merrienne Hackathorn of the Ohio Division of Geological Survey edited the manuscript and filled in the voids concerning the Ohio listings. Debbie Young of Cabot Oil & Gas typed the manuscript on a word processor and helped organize the indexes.

The map on the front cover shows the geographic area of the Appalachian Basin in which the included theses and dissertations are located. Some Triassic Basin and Black Warrior Basin studies were included, since these basins are actively being explored for oil and gas.

Any corrections and additions to this Index should be brought to the attention of the AGS editor.

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B I B L I O G R A P H Y

Entries are listed according to State where the school is located, followed by name of school, name of author, and date of completion. Dissertations, masters theses, and bachelors theses are included within this order, but are individually designated.

ALABAMA

University of Alabama, Tuscaloosa
Tuscaloosa, Alabama 35486

- Beavers, W. M. (Wendell M.), 1977, The depositional environments of the Hartsville Sandstone in Colbert and Franklin Counties, Alabama: M. S. thesis, University of Alabama, 84 p.
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- Holmes, J. W. (James Wheeler), 1980, Depositional environment of the Lewis Sandstone in the Warrior Basin of Alabama: M. S. thesis, University of Alabama, 172 p.
- Hunter, C. C. (Cindy Carothers), 1978, Geology and wall-rock alteration of selected barite vein deposits of Bibb County, Alabama: M. S. thesis, University of Alabama, 141 p.
- Price, R. C. (Rex Clayton), 1977, Lithologic differentiation by use of remote sensing in Tuscaloosa County, Alabama: M. S. thesis, University of Alabama, 156 p.
- Shepard, B. K. (Brian Keith), 1979, Petrography and paleoenvironments of the Carter "Sand" in the Black Warrior Basin of northwestern Alabama and northeastern Mississippi: M. S. thesis, University of Alabama, 180 p.
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- Sutley, D. E. (David E.), 1978, The petrogenesis and stratigraphic significance of the Jemison Chert, Chilton County, Alabama: M. S. thesis, University of Alabama, 64 p.

Ward, W. E. II (Willard Esque), 1977, Jointing in a selected area of the Warrior Coal Field, Alabama: M. S. thesis, University of Alabama, 61 p.

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Stanford, California 94305

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Storrs, Connecticut 06268

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Major, R. P. (Richard P.), 1976, Petrology and stratigraphy of the Allentown Dolomite (U. Cambrian), northwestern New Jersey: M. S. thesis, University of Connecticut, 148 p.

Sansone, S. A. (Stanley A.), 1979, Solution cleavage in sedimentary rocks of eastern New York: M. S. thesis, University of Connecticut, 85 p.

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New Haven, Connecticut 06520

Keller, F. B. (Fred B.), 1980, Precambrian sedimentology and structural chronology of a portion of the Tennessee Blue Ridge: Ph. D. dissertation, Yale University, -- p.

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University of Delaware
Newark, Delaware 19711

Branca, J. (John), 1979, Petrology and structure of the Glenarm Series and associated rocks in the Mill Creek area, Delaware: M. S. thesis, University of Delaware, -- p.

Gohn, G. (Gregory), 1973, Metasedimentary units of the Marburg Formation, York County, Pennsylvania: M. S. thesis, University of Delaware, - p.

Gohn, G. (Gregory), 1976, Sedimentology, stratigraphy, and paleogeography of Lower Paleozoic carbonate rocks, Conestoga Valley, southeastern Pennsylvania: Ph. D. dissertation, University of Delaware, -- p.

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George Washington University
Washington, District of Columbia 20052

- Dionne, J. V. (Jane Vogler), 1980, Geology of the middle Pennsylvanian Stockton - Lewiston coal seam and associated clastic rocks in West Virginia: Ph. D. dissertation, George Washington University, -- p.
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- Hazlett, J. S. (Jean Schwendner), 1978, Petrology and provenance of the Triassic limestone conglomerate in the vicinity of Leesburg, Virginia: M. S. thesis, George Washington University, 100 p.
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Atlanta, Georgia 30322

- Gregory, A. E., III (Arthur Emory), 1977, The Sauk-Illipecanoe unconformity in Walker County, Georgia: B. S. thesis, Emory University, 60 p.

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Atlanta, Georgia 30332

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University of Iowa
Iowa City, Iowa 52242

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Anderson, R. W. (Robert W.), 1977, Sedimentologic and stratigraphic relationships of the Pennington Formation (Upper Mississippian) and the lower tongue of the Breathitt Formation (Lower Pennsylvanian) in Rowan and Menifee Counties, Kentucky: M. S. thesis, Eastern Kentucky University, 123 p.

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- Dillenberger, D. S. (Douglas S.), 1976, Petrology of the Haney and Glen Dean Members of the upper Newman Formation (Upper Mississippian) of eastern Kentucky: M. S. thesis, Eastern Kentucky University, 130 p.
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- Fink, S. L. (Susan L.), 1979, Depositional environments of Upper Mississippian and Lower Pennsylvanian strata in southeast-central Kentucky: M. S. thesis, Eastern Kentucky University, 75 p.
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- Lovitt, R. L. (Ronald L.), 1980, The relation of sediment size to a fossil plant distribution in strata exposed at Grannies Branch of Goose Creek, Clay County, Kentucky: M. S. thesis, Eastern Kentucky University, 120 p.
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- McLoughlin, T. F. (Thomas F.), 1979, The geologic significance of Landsat imagery lineament analysis in selected areas of eastern Kentucky: M. S. thesis, Eastern Kentucky University, 110 p.
- Merritt, R. D. (Roy D.), 1978, Geochemical analysis of Middle Pennsylvanian coal-bearing strata in eastern Kentucky: Its relation to paleo environments and application to reclamation: M. S. thesis, Eastern Kentucky University, 298 p.
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- Baird, R. A. (Robert Alan), 1981, A geochemical survey of the top of the Knox Dolomite in central Kentucky: M. S. thesis, University of Kentucky, -- p.

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- Bland, A. E. (Alan Edward), 1978, Trace element geochemistry of volcanic sequences of Maryland, Virginia, and North Carolina and its bearing on the tectonic evolution of the central Appalachians: Ph. D. dissertation, University of Kentucky, -- p.
- Bondurant, W. S. (William Stewart), 1978, A trace element study of sphalerite in the central Kentucky mineral district: M. S. thesis, University of Kentucky, - p.
- Chesnut, D. (Donald), 1980, Echinoderms from the lower part of the Pennington Formation (Chesterian) in south-central Kentucky: M. S. thesis, University of Kentucky, -- p.
- Davis, P. A., Jr. (Philip A.), 1977, Trace element model studies of late Precambrian-early Paleozoic greenstones of Virginia, Maryland, and Pennsylvania: Ph. D. dissertation, University of Kentucky, -- p.
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- Kells, B. L. (Bruce L.), 1980, Paleogeography, depositional environments, and regional structure of a portion of the Pennsylvanian age Breathitt Formation, southeastern Kentucky: M. S. thesis, University of Kentucky, - p.
- Lieber, R. B. (Robert Barry), 1978, Paleoenvironmental aspects of lower Mississippian Waulsortian type mounds of the Fort Payne Formation in northern Tennessee: M. S. thesis, University of Kentucky, -- p.
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- Nicholson, F. H. (Frank Herbert), 1978, Sedimentology of the Clinch Sandstone, northeastern Tennessee and southwestern Virginia: M. S. thesis, University of Kentucky, -- p.
- Nunez, E. (Eugenio), 1980, Geochemical variance in the Devonian black shales of Kentucky: M. S. thesis, University of Kentucky, -- p.
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- Pear, J. (James), 1980, Factors controlling stratigraphic variation within the Mississippian "Big Lime" of eastern Kentucky - a petroliferous subsurface equivalent of the lower Newman Group (Meramecian-lower Chesterian): M. S. thesis, University of Kentucky, -- p.
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- Powers, S. J. (Stephen John), 1977, Stratigraphy and structure in the area of the Cooper Creek anticline, Virginia: M. S. thesis, University of Kentucky, -- p.
- Price, P. E. (Peter Elliot), 1978, The calculation and interpretation of geothermal gradients in the Commonwealth of Kentucky: M. S. thesis, University of Kentucky, -- p.
- Richers, D. M. (David Matthew), 1979, A hydrochemical study of the Corbin Sandstone Member of the Pennsylvanian Lee Formation in eastern Kentucky for uranium and base metal mineralization: Ph. D. dissertation, University of Kentucky, -- p.
- Robl, T. L. (Thomas L.), 1977, Factors controlling the geochemistry of vadose and stream waters in a carbonate terrain: Ph. D. dissertation, University of Kentucky, -- p.
- Steinemann, C. F. (Christopher F.), 1980, A gravity study of the Middlesboro Cryptoexplosive Structure: M. A. thesis, University of Kentucky, -- p.
- Swager, D. R. (Dennis R.), 1978, Stratigraphy of the upper Devonian-lower Mississippian shale sequence in the eastern Kentucky outcrop belts: M. S. thesis, University of Kentucky, -- p.

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Louisiana State University
Baton Rouge, Louisiana 70803

- Drennen, W. T., III (William Thomas), 1976, Sedimentary petrology and depositional environment of the Longarm Quartzite (late Precambrian) of the Blue Ridge province of North Carolina - Tennessee: M. S. thesis, Louisiana State University, 220 p.
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New Orleans, Louisiana 70118

- Patrick, R. N. (Robert N.), 1977, A survey of the geology exposed along Interstate 65 in Giles and southern Marshall Counties, south central Tennessee: Senior honors thesis, Tulane University, - p.

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Baltimore, Maryland 21218

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- Mitra, G. (Gautam), 1977, The mechanical processes of deformation of granite basement, and the role of ductile deformation zones in the deformation of Blue Ridge basement rocks in northern Virginia: Ph. D. dissertation, Johns Hopkins University, -- p.
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College Park, Maryland 20742

- Finkelman, R. B. (Robert Barry), 1980, Modes of occurrence of trace elements in coal: Ph. D. dissertation, University of Maryland, 329 p.

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Cambridge, Massachusetts 02138

- Hepburn, J. R. (Judith Rehmer), 1976, Petrology of the Esopus Shale, Lower Devonian, New York and adjacent states: Ph. D. dissertation, Harvard University, -- p.

Smith College
Northampton, Massachusetts 01063

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East Lansing, Michigan 48824

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Houghton, Michigan 49931

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Ann Arbor, Michigan 48109

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To facilitate evaluation of the geologic studies pertaining to a State or Province, each thesis is listed under the proper geographic designation, and then under a more specific subject heading within that geographic area. The same thesis is cross-listed according to subject. Areal geology, environmental geology, and regional structural studies are listed only by geographic area.

The subject index is hierarchical, with up to four categories. It is modeled after the Geo Ref system developed by the American Geological Institute (1974) and now used as a basis for much bibliographic indexing in the geosciences.

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 - Dikes (see Igneous rocks, intrusions)
 - Dolomite (see Sedimentary rocks, dolomite)
 - Drill holes (see Well-logging)
 - Drumlins (see Geomorphology, glacial features)
 - Dynamic metamorphism (see Metamorphism, dynamic)

- Earthquakes (see Seismology)
- Economic geology (see Mineral deposits, mineral exploration)
- Electric logging (see Well-logging, see Geophysical methods, electrical)
- Engineering geology
 - General
 - 21, Lawson
 - 35, Malik
 - 36, Stollar
 - 45, Lowe
 - 52, Leonard
 - 53, Sequiti
 - 60, Bachman
 - 61, fby
 - 65, Hoffman
 - 66, McLane
 - 67, Wachenfeld
 - 69, Melton
 - 71, Watson
 - 73, Hartman
 - 87, Walker
 - Highway geology
 - 11, Johnson
 - Landslides
 - 44, Kufs
 - 64, Rosenquest
 - 82, Felton
 - 87, Poschmann
 - Mines
 - 1, Dillon
 - 36, Mitchell
 - 36, Romilo
 - 47, Haas
 - 55, Rogerson
 - 63, Roebuck
 - 64, Iannacchione
 - 72, Heimgartner
 - 82, Hamilton
 - 82, Hilgar
 - 82, Kimulus
 - Rocks mechanics
 - 65, Brand
 - Soil mechanics
 - 36, Oneacre
 - Waste disposal
 - 29, Henning
 - 30, Russo
 - 47, Gray
 - 83, Stephen
 - Water supply
 - 61, Crose
 - 61, fby
- Environmental geology (listed under appropriate State or Province)
- Erosion surfaces (see Geomorphology, erosion features)
- Faults (see Structural geology, faults)
- Folds (see Structural geology, folds)
- Foliation (see Structural geology, foliation)
- Fossils (see Paleontology)
- Gems (see Mineralogy)
- Geochemical exploration (see Mineral exploration, geochemical)
- Geochronology
 - Paleontologic (see Paleontology, see Stratigraphy)
 - Radiometric
 - 18, Beliamonte
 - 39, Barbis
 - 39, Bauman
 - 42, McDaniel
 - 64, Robison
- Geologic mapping (see Areal geology under individual State and Province)
- Geomorphology
 - Cryptoexplosion features
 - 12, Steinemann
 - Eolian features
 - 55, Chase
 - Erosion features
 - General
 - 1, Dillon
 - 17, Lloyd
 - 52, Porter
 - 53, Rouf
 - 53, Weatherbee
 - 70, Henderson
 - 78, Johnson
 - 79, Houser
 - Erosion surfaces
 - 1, Dillon
 - 2, Moreno Agreda
 - 17, Lloyd
 - 53, Weatherbee
 - Talus
 - 40, Gracanic
 - Terraces
 - 42, McSaveney
 - 56, Conti
 - 83, Iewalt

Geomorphology (continued)

Fluvial features

18, Seidman
 29, Dixon
 39, Biddison
 46, Byrne
 50, Ames
 70, Capelli
 87, Gallinger
 87, Larsen
 87, Mitchum

Glacial features

General

7, Aber
 13, Rexroad
 19, Geier
 29, Bowyer
 29, Good
 30, Thompson
 31, Echelbarger
 40, Edmister
 42, Mallory
 50, Boozel
 50, Cox
 51, Johnson
 52, Lewis
 53, Topp
 56, Conti
 56, Fleeger
 57, Matlocks
 58, Wardrop
 60, Bucek
 60, Craig
 64, Albright
 67, Yannaccone

Moraine

20, Babson
 46, Gordon

Outwash

30, Massaro
 50, Braymer

Karst

32, Tintera
 40, Gracatin
 45, Clark
 76, Price
 80, Carroll
 83, Ogden
 85, Coward

Lacustrine features

46, Clough
 51, Johnson

Geomorphology (continued)

Lacustrine features (continued)

53, Wilson
 87, Pollock

Lineaments

9, McLoughlin
 76, Slusarski

Mass movements

35, Krist
 59, Domaratus

Shores features

6, Miller
 19, Brennan

19, Geier
 39, Barnett
 52, Morosky

Geophysical methods

Electrical

87, Hughes

Gravity

3, Maguire
 10, Ammerman
 12, Steinemann
 16, Williams
 20, Cuddihee
 20, Wilson
 31, Cassetta
 31, Haidarian
 32, Newhart
 32, Quick
 36, Plevniak
 37, Wallace
 43, Mitchell
 48, Cobb
 48, Kidd
 48, Kompanik
 49, Massar
 49, Neese
 49, Walker
 61, Hawman
 62, Quaah
 62, Rhodes
 68, Thompson
 76, Price

Magnetic

31, Haidarian
 32, Newhart
 32, Quick
 41, Harvey
 43, Myers
 43, Patterson

Geophysical methods (continued)

Magnetic (continued)

48, Cobb
 48, Kompanik
 49, Walker
 54, Barber
 54, Hoch
 59, Hawman
 59, Stonestrom
 61, Davis
 62, Quaah
 63, Borawski
 64, Haarr
 64, Lee
 64, Payne
 68, Thompson

Paleomagnetic

39, Bartman
 40, Choate
 41, Istok
 42, Kopacz
 43, Musser
 43, Rowan
 44, Stupp
 60, Kluger
 63, Cain
 64, Shulik
 88, Curlis
 88, McGrain

Radioactivity

45, Massey-Norton

Radio waves

1, Price
 62, Parrish

Satellites

60, Craig
 61, Kowalik

Seismic

3, Porter
 11, Greenburg
 20, Fletcher
 30, Mangun
 36, Schultz
 41, Harvey
 48, Allred
 48, Kidd
 55, Nicholson
 66, Littlefield
 66, Peterson
 67, Sosik
 76, Price
 78, Chapman
 78, Griffiths

Geophysical methods (continued)

Seismic (continued)

79, Moore
 79, Sodbinow
 80, Hull
 88, Harty
 88, Yuen

General

19, Ellis
 36, Perez
 48, Kastritis
 48, Krupa
 49, Lindecke
 49, Rose

Thermal

88, Johnson

Georgia

Areal geology

72, Dunn
 73, Meachman

Paleontology

General

73, Satterfield & Bergenback

Sedimentary rocks

Coal

72, Dunn

Limestone

73, McCullough & Bergenback
 73, Satterfield & Bergenback

Stratigraphy

Ordovician

73, McCullough & Bergenback
 73, Satterfield & Bergenback

Structural geology

Unconformities

4, Gregory, III

Geothermal gradient (see Heat flow)

Gravity transfer (see Geomorphology, mass movement)

Ground water (see Hydrogeology, ground water)

Heat flow

12, Price
 35, Maurath
 36, Schlorholtz

Hydrogeology

General

24, LaFlure
 24, Nelson
 35, Howell
 36, Perez

Hydrogeology (continued)

General (continued)

49, Pender
 51, Donan
 56, Glaspey
 58, Blaze
 59, Albala
 61, Eby
 61, Gough
 62, Krothe
 63, Williams
 65, Fisher, S. J.
 65, Freeman
 66, Hosfeld
 66, Platt
 67, Senger
 67, Wolckenhauer
 80, Johnson
 80, Waller
 82, Heller
 87, Sadler

Ground water

12, Robl
 24, Tompkins
 29, Brasaemle
 30, Post
 35, Hill
 36, Szczepanowski
 37, Wittman
 39, Bain
 41, Henning
 43, Naymik
 43, Olds
 44, Cook
 44, Kutz
 45, Quinn
 45, Soukup
 46, Winegardner
 50, Chapman
 52, Lewis
 52, Newport
 54, Galloway
 59, Marien
 60, Brown
 61, Gerhart
 61, Hunter
 62, Krothe
 62, Meiser
 63, Roebuck
 63, Spiller
 65, Fisher, D. B.
 66, Platt

Hydrogeology (continued)

Ground water (continued)

66, Rambaugh
 67, Smith
 69, Geidel
 70, Sewell
 74, Claytor
 74, Fletcher
 82, Hilgar
 82, Moore, F. S.
 83, Ogden
 83, Steffy
 88, Weitzman

Limnology

36, Oros
 37, Wittman
 37, Young
 69, Harris
 87, Johnston

Streams

12, Robl
 37, Young
 42, Krichbaum
 44, Stowe
 46, Winegardner
 49, Steele
 50, Bollenbacher
 50, Cox
 51, Dicker
 51, Dineen
 51, Doyle
 51, Getchell
 53, Sequiti
 55, Cartier
 58, Desenberg
 61, Crouse
 61, Garabedian
 65, Dunkin
 66, Littlefield
 66, Mitchell
 67, Senger
 70, Sewell
 81, Akers
 81, Campbell
 82, Mathes
 83, Steimle
 83, Teti

Igneous rocks

Extrusions

11, Bland
 41, Jamieson
 70, Davis

Igneous rocks (continued)**Extrusions (continued)**

70, Jackson

Intrusions

41, Harvey

43, Mitchell

48, Wiley

70, Henderson

73, Agee

Pyroclastics

5, Paulson

76, Siribhakdi

Indiana**Paleontology****Invertebrate paleontology****Bryozoa**

37, Chimney

Paleoecology

37, Chimney

Stratigraphy**Ordovician**

37, Chimney

Invertebrate paleontology (see

Paleontology, invertebrate)

Isotopes (see Chemical analysis

methods, isotopes, see

Geochronology)

Joints (see Structural geology,
joints)

Karst (see Geomorphology, karst)

Kentucky**Archeology**

17, Stein

Caves and caverns

40, Gracanin

Chemical analysis methods

unspecified in title

70, Sewell

Clay mineralogy

9, Price

Engineering geology**Highway geology**

11, Johnson

Geomorphology**Erosion features****Erosion surfaces**

2, Moreno-Agreda

Talus

40, Gracanin

Kentucky (continued)**Geomorphology (continued)****Karst**

40, Gracanin

Lineaments

9, McLoughlin

Geophysical methods**Gravity**

10, Ammerman

12, Steinemann

43, Mitchell

Magnetic

41, Harvey

Paleomagnetic

42, Kopacz

43, Musser

44, Stupp

Heat flow

12, Price

Hydrogeology**Ground water**

12, Robl

43, Olds

69, Geidel

70, Sewell

Streams

12, Robl

70, Sewell

Igneous rocks**Intrusions**

41, Harvey

43, Mitchell

73, Agee

Mineral deposits**Organic materials****Coal**

43, Olds

60, Austin

Oil and gas

11, Birch

Metals**Zinc**

5, Moore

Non-metals**Uranium**

12, Richers

Mineral exploration**Geochemical methods**

9, Merritt

10, Baird

11, Markowitz

Photogeology

9, McLoughlin

Kentucky (continued)

Paleontology
 Echinodermata
 Echinoidea
 11, Chestnut
 Trace fossils
 16, Murray
 33, Jordan
 Microfossils
 Acritarchs and
 hystrichospheres
 41, Jacobson
 Chitinozoans
 42, Knabe
 42, Miller
 Paleobotany
 Nonvascular plants
 9, Sasso
 Vascular plants
 8, Lovitt
 10, Spurgeon
 Paleoecology
 8, Duncan
 11, Gordon
 28, Ottee
 69, Dennis
 75, Masuoka
 Petrology
 Igneous Petrology
 73, Agee
 Metamorphic petrology
 11, Bondurant
 Sedimentary petrology
 Unspecified
 10, Williams
 33, Martin
 34, Short
 34, Stephenson
 38, Rothman
 Sedimentary rocks
 Chemical sedimentary rocks
 Chert
 8, Binkley
 8, Johnson
 10, Wetmore
 Evaporites unspecified
 77, Milliken
 Coal
 8, Currens
 9, Merrill
 10, Williams

Kentucky (continued)

Sedimentary rocks (continued)
 Coal (continued)
 42, Kopaca
 68, Baldwin
 Dolomite
 8, Bowling
 8, Johnson
 34, Stephenson
 Limestone
 5, Moore
 9, Marashi
 9, Niskanen
 9, Price
 28, Ottee
 34, Tobin
 43, Musser
 Sandstone
 10, Taylor
 12, Okolo
 12, Richers
 33, Gardner
 33, Martin
 38, Rothman
 40, Gracanic
 Shale
 10, Stevens
 11, Johnson
 11, Markowitz
 12, Miller
 12, Nunez
 13, Woock
 33, Jordan
 34, Tobin
 42, Kopacz
 69, Geidel
 Stratigraphy
 Cambrian
 34, Webb
 Ordovician
 7, Bell
 8, Duncan
 8, Mandell
 9, Marashi
 9, Norris
 10, Baird
 28, Ottee
 34, Tobin
 41, Jacobson
 42, Knabe
 42, Miller

Kentucky (continued)

Stratigraphy (continued)

Ordovician (continued)

43, Musser

44, Stupp

Silurian

5, Moore

8, Bouknight

8, Bowling

8, Mandell

11, Gordon

12, Nicholson

16, Murray

Devonian

2, Persons

8, Johnson

11, Dillman

11, Markowitz

12, Miller

12, Nunez

12, Swager

13, Woock

33, Jordan

34, Stephenson

Mississippian

7, Anderson

8, Binkley

8, Dillenberger

8, Fink

9, Moore

9, Niskanen

9, Sanders

11, Birch

11, Chesnut

11, Markowitz

12, Miller

12, Okolo

12, Pear

12, Swager

33, Lee

33, Martin

38, Rothman

69, Canfield

69, Dennis

69, Geidel

70, Sewell

77, Milliken

Pennsylvanian

12, Richers

Undivided

7, Anderson

8, Currans

Kentucky (continued)

Stratigraphy (continued)

Pennsylvanian (continued)

Undivided

8, Ellsworth

8, Fink

8, Ketani

9, Merritt

10, Stevens

10, Taylor

13, Wixted

33, Gardner

60, Austin

69, Dennis

69, Geidel

70, Sewell

Allegheny

10, Sergeant

Conemaugh

10, Walter

Pottsville

9, Price

9, Sasso

10, Wetmore

10, Acquaviva

11, Kells

12, Ping

33, Lee

Structural geology

General

11, Kells

34, Webb

Faults

9, Phillips

9, Scott

10, Ammerman

Lineaments

9, McLoughlin

Well-logging

43, Musser

44, Stupp

Lineaments (see Geomorphology,
lineaments)Maryland

Geophysical methods

Gravity

3, Maquire

Magnetic

64, Haarr

Maryland (continued)

Igneous rocks
 Extrusions
 11, Bland
 Mineral exploration
 Geochemical methods
 11, Bland
 11, Davis
 Paleontology
 Mircofossils
 Conodonts
 40, Boger
 Paleoecology
 47, Niles
 Stratigraphy
 Precambrian basement
 11, Davis
 64, Haarr
 85, Spritzer
 Paleozoic, general
 11, Davis
 Ordovician
 40, Boger
 Devonian
 47, Niles
 Structural geology
 General
 85, Spritzer

 Metamorphism
 Contact
 87, Legall
 Dynamic
 77, Forrest
 Mineralogy
 General
 56, Dubiel
 56, Harraden
 61, Cybriwsky
 62, Krohn
 Barite
 1, Hunter
 Celestite and Strontianite
 57, Prestwood
 Iron oxides
 66, Reese
 Quartz
 55, Wood
 Zircon
 63, Tole

Mineral deposits

Organic materials
 Coal
 9, Monroe
 18, Akhinonbare
 36, Mitchell
 38, Korzeb
 40, Cooper
 43, Olds
 47, Haas
 56, Hale
 60, Austin
 61, Garabedian
 62, Navarro
 63, Roebuck
 63, Waddell
 64, Iannacchione
 64, Puglic
 69, Carlson
 69, Cummins
 69, Melton
 74, Claytor
 74, Fletcher
 Oil and gas
 11, Birch
 19, Petsrillo
 20, Poppendeck
 32, Calcagno
 35, Austin
 35, Maxey
 37, Walters
 39, Sunwall
 39, Beal
 40, Griffith
 44, Adams
 51, Hines
 61, Famy
 83, Schamp
 86, Chinnick

 Metals
 Unspecified in title
 12, Richers
 52, Morgan
 56, Davis
 62, Pirc
 63, Schasse
 63, Smith
 63, Tole
 71, Jones

Metals (continued)

Copper

56, Davis
63, Smith
85, Cheung

Lead

53, Williams
63, Tregaskis
79, Henry
80, Staten
85, Cheung

Uranium

12, Richers
56, Davis
62, Pirc
63, Smith
63, Tole

Zinc

5, Moore
53, Williams
63, Tregaskis
74, Churnet
74, Ebers
78, Baldwin
85, Cheung

Non-Metals

General

62, Krohn
66, Mackie

Building stone

66, Morrow
67, Sosik

Gravel

50, Allen
54, Wolfe

Limestone

75, Larsen

Marble

76, Sitterly
77, Forrest

Quartz

15, McKosky

Phosphate

59, Lee

Sand

50, Allen
54, Wolfe

Sulfides

17, Jessey

Mineral exploration

Geochemical methods

4, Sayala
9, Merritt
10, Baird
11, Bland
11, Davis
11, Markowitz
18, Serviss
31, Hoover
32, Morro
33, Ranganathan
34, Ulmschneider
35, Hollenbaugh
43, Olson
46, Scheerens
46, Turner
58, Van Allen
63, Tregaskis
65, Crist
78, Foley
Photogeology
9, McLoughlin
29, Bowyer
45, Armstrong
76, Slusarski

Mine pollution (see Environmental geology under specific State or Province)

Mines (see Engineering geology, see Mineral deposits)

Moraines (see Geomorphology, glacial deposits)

Natural Gas (see Mineral deposits, organic, oil and gas)

New Jersey

Stratigraphy

Cambrian
2, Major

New York

Caves and caverns

2, Kastning

Chemical analysis methods

unspecified in title

52, Langehan

69, Harris

Clay mineralogy

19, Pollastro

New York (continued)

Computer methods
45, Soukup

Engineering geology
General
21, Lawson

Geochronology
Radiometric
18, Beliamonte

Geomorphology
Fluvial features
18, Seidman

Glacial features
General
19, Geier

Shores features
19, Brennan
19, Geier

Geophysical methods
General
19, Ellis

Gravity
20, Cuddihee
68, Thompson

Magnetic
68, Thompson

Seismic
20, Fletcher

Hydrogeology
Ground water
24, Tompkins
45, Soukup

Limnology
69, Harris

Mineral deposits
Organic materials
Oil and gas
20, Poppendeck

Non-metals
Sulfides
17, Jessey

Paleontology
Invertebrate paleontology
Anthozoa
23, Clark

Porifera
20, Stoiber

Stromatoporoidea
23, Bottjer
28, Stock

New York (continued)

Paleontology (continued)
Invertebrate paleontology (continued)
Trace fossils
21, Marintsch
24, Corbo

Microfossils
Acritarchs and
hystrichospheres
41, Jacobson

Paleobotany
Nonvascular plants
15, Wood

Vascular plants
15, Wood

Paleoecology
25, Burrier
25, Cornue
27, Diehl

Petrology
Metamorphic petrology
16, Valley (1977)
16, Valley (1980)
18, O'Leary

Sedimentary petrology
Thin sections (Petrography)
25, LaCroix

Unspecified
19, Muck

Reefs
22, Collins
22, Strife
22, Turner
24, Coughlin

Sedimentary rocks
Chemical sedimentary rocks
Iron ores
18, Massiello
18, Tumialan

Carbonates unspecified
19, Pollastro

Dolomite
22, Shukla

Limestone
20, Stoiber
22, Klara

Shale
14, Hepburn
25, Cornue

New York (continued)

Sediments
 Clastic
 Glacial deposits
 23, Caprio
 Lacustrine
 19, ForLune
 Stratigraphy
 Precambrian basement
 3, Kearns
 Ordovician
 21, Hughes
 22, Conway
 22, Harris
 22, Klara
 23, Bosworth
 25, LaCroix
 41, Jacobson
 Silurian
 6, Belak
 19, Freedenberg
 19, Pollastro
 20, Poppendeck
 21, Knowlton
 22, Shukla
 25, Bolle
 25, Wysocki
 28, Stock
 52, Langehan
 Devonian
 6, Hohn
 14, Hepburn
 15, Wood
 19, Pollastro
 20, Stoiber
 21, Marintsch
 21, Murray
 22, Collins
 22, Strife
 22, Turner
 22, Waldman
 23, Isley
 23, Bottjer
 23, Cassa
 23, Clark
 24, Corbo
 24, Coughlin
 24, McCollum
 25, Cornue
 27, Diehl
 68, Dunne

New York (continued)

Stratigraphy (continued)
 Pleistocene
 7, Aber
 23, Stupp
 24, Gillespie (1977,1980)
 25, Duchossois
 Structural geology
 General
 23, Bosworth
 Foliation
 2, Sansone
 Joints
 19, Murphy
 21, Knowlton
 Well-logging
 22, Conway
 22, Harris
 22, Waldman

North Carolina

Areal geology
 27, Dabbagh
 27, Lewis, S. E.
 77, Forrest
 Igneous rocks
 Extrusions
 11, Bland
 Metamorphism
 Dynamic
 77, Forrest
 Mineral deposits
 Non-Metals
 Marble
 77, Forrest
 Mineral exploration
 Geochemical methods
 11, Bland
 Petrology
 Sedimentary petrology
 Thin sections
 70, Przygocki
 Sedimentary rocks
 Sandstone
 70, Przygocki
 Stratigraphy
 Precambrian basement
 13, Drennen
 Structural geology
 General
 14, Boyer
 27, Moller

Nova Scotia

Stratigraphy

- Mississippian
- 84, Blakeney
- 84, Boehner
- 84, McCulloch

Ohio

Areal geology

- 30, Layton
- 30, Sanger
- 43, Ruggeberg
- 44, Weatherington
- 47, Himes
- 49, Pender

Caves and caverns

- 46, Cobb
- 49, Lindecke

Channels, buried

- 30, Mangun
- 36, Perez
- 36, Plevniak
- 48, Kastritis

Chemical analysis methods

- unspecified in title
- 40, Finkl
- 41, Jamieson

Isotope

- 39, Sunwall
- 41, Haden
- 43, Orr
- 49, Steele

Clay mineralogy

- 37, Crowell

Computer methods

- 35, Hill
- 43, Naymik
- 44, Cook
- 45, Quinn

Engineering geology

General

- 35, Malik
- 36, Stollar
- 45, Lowe

Landslides

- 44, Kufs

Mines

- 36, Mitchell
- 47, Haas

Soil mechanics

- 36, Oneacre

Ohio (continued)

Engineering geology (continued)

- Waste disposal
- 29, Henning
- 30, Russo
- 47, Gray

Geochronology

Radiometric

- 39, Barbis
- 39, Bauman
- 42, McDaniel

Geomorphology

Erosion features

- Terraces
- 42, McSaveney

Fluvial features

- 29, Dixon
- 39, Biddison
- 46, Byrne

Glacial features

General

- 29, Bowyer
- 30, Thompson
- 31, Echelbarger
- 40, Edmister
- 42, Mallory

Moraine

- 46, Gordon

Outwash

- 30, Massaro

Karst

- 32, Tintera

Lacustrine features

- 46, Clough

Mass movements

- 35, Krist

Shores features

- 39, Barnett

Geophysical methods

Gravity

- 16, Williams
- 31, Cassetta
- 31, Haidarian
- 32, Newhart
- 32, Quick
- 36, Plevniak
- 37, Wallace
- 48, Cobb
- 48, Kidd
- 48, Kompanik

Ohio (continued)

Geophysical methods (continued)

Gravity (continued)

49, Massar
49, Neese
49, Walker

Magnetic

31, Haidarian
32, Newhart
32, Quick
43, Patterson
48, Cobb
40, Kompanik
49, Walker

Paleomagnetic

40, Choate
41, Istok
42, Kopacz
43, Rowan

Radioactivity

45, Massey-Norton

Resistivity

36, Rintala
36, Schultz

Seismic

30, Mangun
36, Schultz
41, Harvey
48, Kidd

Thermal

36, Perez
48, Kastritis
48, Krupa
49, Lindecke
49, Rose

Heat flow

36, Schlorholtz

Hydrogeology

General

35, Howell
36, Perez
49, Pender

Ground water

29, Brasaemle
30, Post
35, Hill
36, Szczepanowski
37, Wittman
39, Bain
41, Henning

Ohio (continued)

Hydrogeology (continued)

Ground water (continued)

43, Naymik
44, Cook
44, Kutz
45, Quinn
46, Winegardner

Limnology

37, Wittman
37, Young

Streams

37, Young
42, Krichbaum
44, Stowe
46, Winegardner
49, Steele

Extrusions

41, Jamieson

Intrusions

42, Mazgaj

Mineral deposits

Organic materials

Coal

36, Mitchell
38, Korzeb
40, Cooper
47, Haas

Oil and gas

32, Calcagno
35, Austin
35, Maxey
37, Walters
39, Sunwall
39, Beal
40, Griffith
44, Adams

Mineral exploration

Geochemical methods

31, Hoover
32, Morro
35, Hollenbaugh
43, Olson
46, Scheerens
46, Turner

Photogeology

29, Bowyer
45, Armstrong

Paleontology

General

34, Walker

Ohio (continued)

Paleontology (continued)

General (continued)

Brachiopoda

47, Weidner

Bryozoa

37, Chimney

Graptolithina

Mollusca

General

40, Ghist

Bivalvia

31, Atwater

Stromatoporoidea

16, Murray

Trace fossils

45, Middleman

47, Mitchell

Microfossils

Acritarchs and

hystrichospheres

41, Jacobson

Chitinozoans

42, Miller

Conodonts

40, Dawson

41, Kleffner

Ostracods

16, Kavary

30, Torguson

Paleobotany

Nonvascular plants

29, Frankovits

Paleoecology

33, Krumpolz

34, Walker

37, Chimney

41, Gulick

45, Huffman

47, Headrick

Petrology

Sedimentary petrology

Heavy minerals

41, Hogg

Thin sections

32, Morro

40, Edmister

47, Storck

Unspecified

28, Bickley

30, Olson

Ohio (continued)

Petrology (continued)

Sedimentary petrology (continued)

Unspecified (continued)

30, Weise

31, Andersen

31, Hoover

34, Short

38, Lovrak

38, Rothman

39, Weimer

46, Gordon

47, Mayer

Reefs

32, Requarth

Sedimentary rocks

Carbonates unspecified

30, Olson

30, Weise

31, Hoover

31, Lanz

44, Ukayli

69, Martin

Coal

42, Kopacz

46, Tsai

Conglomerate

47, Schreiner

Dolomite

46, Scheerens

46, Turner

Limestone

9, Niskanen

34, Tobin

35, Bucher

35, Maxey

47, Mayer

47, Storck

Sandstone

35, Austin

35, Cox

36, Suphasin

37, Walters

37, Warrner

38, Rothman

40, Griffith

41, Hogg

45, Ortega

Shale

6, Craig

32, Calcagno

Ohio (continued)

Sedimentary rocks (continued)

Shale (continued)

- 34, Tobin
- 35, Hollenbaugh
- 36, Stollar
- 39, Weimer
- 42, Kopacz
- 43, Olson

Sedimentary structures

Secondary structures

Concretions

- 35, Hollenbaugh
- 43, Olson
- 43, Orr

Sediments

Clastic

Glacial deposits

- 40, Choate
- 41, Klein
- 42, Mallory
- 42, Mazgaj

Lacustrine

- 36, Szczepanowski

Seismology

Earthquakes

- 16, Newman
- 16, Williams

Stratigraphy

Precambrian basement

- 39, Barbis
- 39, Bauman
- 42, McDaniel

Paleozoic, general

- 41, Haden

Cambrian

- 46, Doig

Ordovician

- 34, Tobin
- 35, Bucher
- 35, Maxey
- 37, Chimney
- 40, Griffith
- 41, Gulick
- 41, Jacobson
- 42, Miller
- 43, Rowan
- 46, Doig

Silurian

- 16, Murray
- 25, Gagliardi

Ohio (continued)

Stratigraphy (continued)

Silurian (continued)

- 31, Andersen
- 31, Lanz
- 31, Lehle
- 32, Requarth
- 35, Austin
- 35, Brown
- 35, Cox
- 36, Suphasin
- 37, Walters
- 38, Kallio
- 38, Lovrak
- 41, Kleffner
- 43, Olson
- 44, Ukayli
- 45, Ortega
- 46, Scheerens
- 46, Turner
- 46, Winegardner
- 69, Martin

Devonian

- 6, Craig
- 16, Kavary
- 32, Calcagno
- 40, Ghist
- 44, Ukayli
- 45, Huffman
- 47, Mayer
- 69, Martin

Mississippian

- 9, Niskanen
- 37, Warrner
- 38, Rothman
- 41, Hogg
- 45, Middleman
- 46, Ball
- 47, Weidner

Pennsylvanian

Undivided

- 31, Hoover
- 36, Oneacre
- 36, Stollar

Allegheny

- 29, Giuffria
- 31, Atwater
- 37, Crowell

Conemaugh

- 45, Lowe

Ohio (continued)

- Stratigraphy (continued)
 - Pennsylvanian (continued)
 - Monongahela
 - 28, Bickley
 - 30, Olson
 - 30, Torguson
 - 30, Weise
 - 39, Weimer
 - Permian
 - 39, Weimer
 - Pleistocene
 - 29, Hodges
 - 30, Ryan
 - 40, Choate
 - 40, Edmister
 - 41, Hoyer
 - 41, Klein
 - 42, Koehl
 - 42, Knabe
 - Holocene
 - 40, Brock
 - 41, Hoyer
 - Structural geology
 - General
 - 48, Heidorn
 - 48, Kompanik
 - 48, Krupa
 - Faults
 - 31, Cassetta
 - 45, Armstrong
 - Well-logging
 - 48, Kidd

Oil (see Mineral deposits, organic materials, oil and gas)

Ontario

- Clay Mineralogy
 - 84, Zeman
- Engineering geology
 - General
 - 87, Walker
 - Landslides
 - 87, Poschmann
- Geomorphology
 - Fluvial features
 - 87, Gallinger
 - 87, Larsen
 - 87, Mitchum
 - Lacustrine features
 - 87, Pollock

Ontario (continued)

- Geophysical methods
 - Paleomagnetic
 - 88, Curtis
 - 88, McGrain
 - Seismic
 - 88, Yuen
- Hydrogeology
 - Ground water
 - 88, Weitzman
- Metamorphism
 - Contact
 - 87, Legall
- Mineral deposits
 - Metals
 - Copper
 - 85, Cheung
 - Lead
 - 85, Cheung
 - Zinc
 - 85, Cheung
 - Organic materials
 - Oil and Gas
 - 86, Chinnick
- Microfossils
 - Conodonts
 - 88, Tarrant
- Paleontology
 - Paleoecology
 - 88, Tarrant
- Sediments
 - Clastic
 - 87, Gallinger
 - Glacial deposits
 - 88, McGrain
- Stratigraphy
 - Precambrian basement
 - 86, Ferry
 - Paleozoic, general
 - 87, Larsen
 - 87, Legall
 - Cambrian
 - 86, Ferry
 - Ordovician
 - 86, Crux
 - 86, Dix
 - 86, Kerr
 - 86, Poey
 - 86, Smith
 - 87, Whitfield

Ontario (continued)

Stratigraphy (continued)

Ordovician (continued)

88, Johnson

88, Tarrant

Silurian

19, Freedenberg

85, Cheung

88, Johnson

88, Pearson

Devonian

23, Cassa

85, Navickas

Mississippian

86, Binney

Structural geology

87, Nadon

Ore deposits (see Mineral deposits,
metals)

Paleontology

General

15, Inners

26, Slagle

34, Walker

51, Howell

54, Collins

54, Wright

56, Coe

66, Powers

73, Satterfield and Bergenback

80, Willoughby

Invertebrate paleontology

Anthozoa

1, Sigman

18, Shapiro

23, Clark

33, Laub

58, Spurgeon

Anthropoda

15, Tuckey

21, Dempster

51, Garwood

58, Spurgeon

75, Maitland

Brachiopoda

4, Mitchell

22, Wolterding

25, Faulkner

32, Sparks

Paleontology (continued)

Invertebrate paleontology (continued)

Brachiopoda (continued)

37, Chapman

47, Weidner

49, Koch

50, Caldemeyer

Bryozoa

15, Pachut

37, Chimney

73, Swafford

Echinodermata

Unspecified

74, Breland

Crinoidea

11, Lieber

Echinoidea

11, Chesnut

Mollusca

General

40, Ghist

Bivalvia

31, Atwater

64, Dickson

Porifera

20, Stoiber

Stromatoporoidea

16, Murray

23, Bottjer

28, Stock

Trace fossils

16, Murray

21, Marinlsch

24, Corbo

33, Jordan

45, Middleman

47, Mitchell

51, Howell

85, Pemberton

Microfossils

Acritarchs and
hystrichospheres

41, Jacobson

Chitinozoans

3, Zalusky

42, Knabe

42, Miller

Conodonts

33, Goodman

40, Boger

40, Dawson

Paleontology (continued)

Microfossils (continued)

Conodonts (continued)

- 41, Hoyle
- 41, Kleffner
- 42, Line
- 43, Schmidt
- 50, Blank
- 79, Hight
- 80, Wilson
- 81, Clarkson
- 86, Sandi
- 88, Tarrant

Foraminifera

- 5, Johnson

Ostracods

- 16, Kavary
- 30, Torguson
- 83, Reed

Palynomorphs

- 77, Thurmer

Paleobotany

Nonvascular plants

- 9, Sasso
- 15, Wood
- 29, Frankovits
- 29, Good
- 75, Moore

Vascular plants

- 8, Lovitt
- 10, Spurgeon
- 15, Wood
- 82, Harr

Paleoecology

- 6, MacDaniel
- 8, Duncan
- 11, Gordon
- 14, Makurath
- 15, Lockett
- 25, Burrier
- 25, Cornue
- 26, Slagle
- 27, Diehl
- 27, Newton
- 28, Otlee
- 33, Krumpolz
- 34, Walker
- 37, Chimney
- 41, Gulick
- 45, Huffman

Paleontology (continued)

Paleoecology (continued)

- 47, Headrick
- 47, Niles
- 49, Koch
- 56, Fowler
- 57, Plumb
- 67, Schollenberger
- 69, Dennis
- 73, Swafford
- 74, Breland
- 75, Maitland
- 75, Masuoka
- 75, Moore
- 76, Sickafoose
- 76, Sitterly
- 79, Plants
- 80, Wilson
- 84, Lake
- 88, Tarrant

Vertebrate Paleontology

- 85, Arsenault

Paleontology, stratigraphic
(see Stratigraphy)Palynomorphs (see Paleontology,
microfossils)Peneplains (see Geomorphology,
erosion features, erosion
surfaces)Pennsylvania

Areal geology

- 60, Lash
- 64, Lindahl

Caves and caverns

- 66, Jones

Chemical analysis methods

- unspecified in title
- 69, Pelletier

Clay mineralogy

- 53, White
- 54, Livermore
- 56, Cook

Engineering geology

General

- 52, Leonard
- 53, Sequiti
- 60, Bachman
- 61, Fby
- 65, Hoffman
- 66, McLane

Pennsylvania (continued)

Engineering geology (continued)

General (continued)

67, Wachenfeld

Landslides

64, Rosenquest

Mines

55, Rogerson

63, Roebuck

64, Iannacchione

Water supply

61, Crouse

61, Eby

Environmental geology

52, Popovich

54, Leibold

61, Hunter

Geomorphology

Eolian features

55, Chase

Erosion features

General

52, Porter

53, Rouf

53, Weatherbee

Terraces

56, Conti

Fluvial features

50, Ames

Glacial features

General

50, Cox

51, Johnson

53, Topp

56, Conti

56, Fleeger

57, Mattocks

58, Wardrop

60, Bucek

60, Craig

64, Albright

67, Yannaccone

Outwash

50, Braymer

Lacustrine features

51, Johnson

53, Wilson

Mass movements

59, Domaratus

Shores features

52, Morosky

Geophysical methods

Gravity

61, Hawman

62, Quaah

Pennsylvania (continued)

Geophysical methods (continued)

Gravity (continued)

62, Rhodes

Magnetic

54, Barber

54, Hoch

59, Hawman

59, Stonestrom

61, Davis

62, Quaah

64, Lee

64, Payne

Paleomagnetic

60, Kluger

63, Cain

Radio waves

62, Parrish

Satellites

60, Craig

61, Kowalik

Seismic

3, Porter

55, Nicholson

66, Littlefield

66, Peterson

67, Sosik

Heat Flow

35, Maurath

Hydrogeology

General

24, La Flure

24, Nelson

56, Glaspey

58, Blaze

59, Albala

61, Eby

61, Gough

62, Krothe

63, Williams

65, Fisher, S. J.

65, Freeman

66, Hosfeld

66, Platt

67, Senger

67, Wolckenhauer

Ground water

50, Chapman

52, Newport

54, Galloway

59, Marien

60, Brown

61, Gerhart

61, Hunter

62, Krothe

Pennsylvania (continued)

Hydrogeology (continued)

Ground water (continued)

- 62, Meiser
- 63, Roebuck
- 63, Spiller
- 65, Fisher, D. B.
- 66, Platt
- 66, Rambaugh
- 67, Smith
- 83, Steffy

Streams

- 50, Cox
- 51, Dicker
- 51, Dineen
- 51, Doyle
- 51, Getchell
- 53, Sequiti
- 55, Cartier
- 58, Desenberg
- 61, Crouse
- 61, Garabedian
- 65, Dunkin
- 66, Littlefield
- 66, Mitchell
- 67, Senger

Mineral exploration

Geochemical methods

- 31, Hoover

Mineral deposits

Organic materials

Coal

- 18, Akhionbarc
- Oil and gas
- 19, Petsrillo

Mineralogy

General

- 56, Dubiel
- 56, Harraden

Celestite and Strontianite

- 57, Prestwood

Iron oxides

- 66, Reese

Quartz

- 55, Wood

Zircon

- 63, Tole

Mineral deposits

Organic materials

Coal

- 61, Garabedian

Pennsylvania (continued)

Mineral deposits (continued)

Organic materials (continued)

Coal (continued)

- 62, Navarro
- 63, Roebuck
- 64, Iannacchione
- 64, Puglic

Oil and gas

- 51, Hines
- 61, Famy

Metals

Unspecified in title

- 52, Morgan
- 63, Schasse

Copper

- 56, Davis
- 63, Smith

Lead

- 53, Williams
- 63, Tregaskis

Zinc

- 53, Williams
- 63, Tregaskis

Non-Metals

General

- 62, Krohn

Building stone

- 66, Morrow
- 67, Sosik

Gravel

- 50, Allen
- 54, Wolfe

Phosphate

- 59, Lee

Sand

- 50, Allen
- 54, Wolfe

Uranium

- 56, Davis
- 62, Pirc
- 63, Smith
- 63, Tole

Mineral exploration

Geochemical methods

- 11, Davis
- 63, Tregaskis
- 65, Crist

Paleontology

General

- 15, Inners

Pennsylvania (continued)

Paleontology (continued)

General (continued)

51, Howell

54, Collins

54, Wright

56, Coe

Invertebrate paleontology

Brachiopoda

25, Faulkner

50, Caldemeyer

Trilobite

51, Garwood

Trace fossils

51, Howell

Microfossils

Conodonts

50, Blank

Paleoecology

47, Niles

56, Fowler

57, Plumb

67, Schollenberger

Petrology

Igneous petrology

55, Sague

55, Thomann

59, Hawman

59, Walleit

62, Parrish

66, Lohrman

Metamorphic petrology

52, Noblett

52, Porter

54, Demmon

54, Mark

55, Thomann

55, Wood

59, Cameron

Sedimentary petrology

Unspecified

31, Hoover

39, Thomsen

55, Nicholson

62, Love

65, Fritz

Reefs

54, Wright

Sedimentary rocks

Chemical sedimentary rocks

Chert

56, Evans

Pennsylvania (continued)

Sedimentary rocks (continued)

Carbonates unspecified

31, Hoover

Coal

18, Akhinonbare

56, Hale

62, Navarro

64, Iannacchione

64, Puglic

68, Buswell

Dolomite

4, Gore

54, Collins

Limestone

50, Blank

55, Chapman

57, Prestwood

63, Carothers

64, Lee

65, Crist

Sandstone

38, Orndorff

49, Main

51, Giles

52, McStraw

53, Waldner

57, McQuillen

61, Houseknecht

Shale

25, Faulkner

39, Thomsen

50, Anderson

62, Oldham

69, Pelletier

Sedimentary structures

Primary structures

51, Howell

52, Morosky

58, Coe

58, Traver

67, Yoder

Sediments

Chemicals

58, Balcom

Clastic

52, Kittinger

52, Kreps

65, Clark

Cave deposits

66, Jones

Pennsylvania (continued)

Sediments (continued)

Glacial deposits

- 58, Wardrop
- 60, Craig
- 62, Rhodes

Soils

Recent soils

- 52, Lerohl
- 52, Morgan
- 53, Robertson
- 53, Williams
- 58, Serlin

Stratigraphy

Precambrian basement

- 11, Davis
- 54, Demmon

Paleozoic, general

- 3, Gohn
- 11, Davis
- 50, Craig
- 51, Fellows
- 52, Popovich

Cambrian

- 4, Gore
- 24, Moshier

Ordovician

- 55, Sarewitz

Silurian

- 25, Rhinehart
- 49, Main
- 55, Chapman
- 56, Coe
- 56, Dubiel
- 56, Evans
- 56, Hallam
- 56, Harraden
- 57, Knowles
- 57, Mackrides
- 57, McQuillen
- 57, O'Keefe
- 57, Pisasale
- 57, Prestwood
- 57, Pringle
- 58, Spurgeon
- 65, Crist
- 65, Faust
- 65, Goodrum
- 66, Reese
- 67, Vreeland
- 67, Yoder

Pennsylvania (continued)

Stratigraphy (continued)

Devonian

- 15, Inners
- 19, Petsrillo
- 23, Isley
- 23, Cassa
- 24, Liebes
- 25, Faulkner
- 47, Niles
- 51, Kamola
- 53, White
- 54, Mirkin
- 54, Wright
- 55, Axtmann
- 55, Chapman
- 56, Cook
- 56, Davis
- 56, Egan
- 56, Fowler
- 57, Humphrey
- 57, Rogers
- 58, Spurgeon
- 58, Traver
- 59, Geller
- 62, Love
- 62, Pirc
- 62, Rahmanian
- 63, Smith
- 63, Tole
- 65, Fisher, D. B.
- 65, Fritz
- 66, Murphy
- 67, Schollenberger
- 67, Weisbrich
- 67, Wissinger
- 67, Wood

Mississippian

- 50, Anderson
- 51, Donan
- 51, Giles
- 53, Titus
- 53, White
- 54, Mirkin
- 55, Seaman

Pennsylvanian

Undivided

- 31, Hoover
- 51, Donan
- 53, Reimers
- 62, Oldham

Pennsylvania (continued)

Stratigraphy (continued)

Pennsylvanian (continued)

Undivided (continued)

- 63, Cain
- 63, Carothers
- 64, Lee

Allegheny

- 68, Buswell

Conemaugh

- 64, Payne

Monongahela

- 38, Orndorff

Pottsville

- 39, Thomsen
- 60, Griesmeer
- 61, Houseknecht

Permian

- 38, Orndorff
- 39, Thomsen

Triassic

- 60, Kluger
- 66, Lohrman

Pleistocene

- 7, Aber
- 64, Albright

Structural geology

General

- 3, Porter
- 19, Pelsrillo
- 56, Egan
- 56, Hale
- 57, Humphrey
- 57, Knowles
- 57, O'Keefe
- 57, Pringle
- 58, Weitz
- 61, Hawman
- 65, Eaton

Faults

- 49, Main
- 55, Nicholson

Folds

- 50, Blank
- 50, Brock
- 52, Kreps
- 58, Shiverick
- 67, Vreeland

Foliation

- 51, Gill
- 58, Coe

Pennsylvania (continued)

Structural geology (continued)

Joints

- 54, Harms
- 56, Demmy
- 57, Ricci
- 67, Wentz
- 67, Wolckenhauer

Lineaments

- 52, Kiefer
- 53, Robertson
- 60, Abriel
- 60, Canich
- 61, Famy
- 61, Kowalik
- 62, Krohn
- 62, Parrish
- 62, Quaah
- 63, Spiller
- 65, Eaton
- 83, Steffy

Petrology

Igneous petrology

- 55, Sague
- 55, Thomann
- 58, Van Allen
- 59, Hawman
- 59, Walleit
- 62, Parrish
- 66, Lohrman
- 73, Agee
- 81, Stahl
- 81, Wingfield

Metamorphic petrology

- 11, Bondurant
- 16, Valley (1977)
- 16, Valley (1980)
- 16, Van Den Berg
- 17, Chen
- 18, O'Leary
- 52, Noblett
- 52, Porter
- 54, Demmon
- 54, Mark
- 55, Thomann
- 55, Wood
- 59, Cameron

Sedimentary petrology

Heavy minerals

- 41, Hogg
- 70, Daffener
- 71, Sanders

Petrology (continued)

Sedimentary petrology (continued)

Thin sections

20, Swiderski
 25, LaCroix
 32, Morro
 40, Edmister
 47, Storck
 70, Przygocki

Unspecified

6, Miller
 10, Williams
 15, McKosky
 19, Muck
 28, Bickley
 30, Olson
 30, Weise
 31, Andersen
 31, Hoover
 33, Lundegard
 33, Martin
 34, Samuels
 34, Short
 34, Short
 34, Stephenson
 38, Lovrak
 38, Rothman
 39, Thomsen
 39, Weimer
 46, Gordon
 47, Mayer
 55, Nicholson
 62, Love
 65, Fritz
 71, Cooper
 72, Robbs
 72, Roberts
 74, Bowlin
 74, Ebers
 74, Hersch
 75, Larsen
 76, Ruppel
 76, Sledz

Photogeology (see Mineral
 exploration, photogeology)

Plutons (see Igneous rocks,
 intrusions)

Pollution (see Environmental
 geology under State or Province)

Precambrian basement (see
 Stratigraphy, Precambrian
 basement)

Pyroclastics (see Igneous rocks,
 pyroclastics)

Quebec

Clay mineralogy

84, Zeman

Paleontology

Invertebrate paleontology

Trace fossils

85, Pemberton

Paleoecology

84, Lake

Microfossils

Conodonts

86, Sandi

Vertebrate paleontology

85, Arsenault

Sedimentary rocks

Sandstone

85, Hiscott

Stratigraphy

Paleozoic, general

84, Breakey

84, Ogunyomi

85, Pemberton

Ordovician

5, Mehrtens

84, Lake

85, Hein

85, Hiscott

85, Lamothe

85, Page

85, Strong

86, Sandi

Devonian

86, Bradfield

Radioactivity (see Geophysical
 methods, radioactivity)

Reefs

19, Wolosz

22, Collins

22, Strife

22, Turner

24, Coughlin

32, Requarth

54, Wright

Regional metamorphism, (see
 Metamorphism, dynamic)

Rivers (see Geomorphology, fluvial
 features)

Rock mechanics (see Engineering
 geology, rock mechanics)

Sanitary land fill (see
Engineering geology, waste
disposal)

Sedimentary petrology (see
Petrology, sedimentary)

Sedimentary rocks
Chemical sedimentary rocks

Chert

8, Binkley

8, Johnson

10, Wetmore

56, Evans

Evaporites unspecified:

77, Milliken

Iron ores

18, Massiello

Sedimentary rocks

Chemical sedimentary rocks

Iron ores

18, Tumialan

70, Bagby

71, Roper

Carbonates unspecified

5, Hunter

19, Pollastro

20, Swiderski

30, Olson

30, Weise

31, Hoover

31, Lanz

44, Ukayli

69, Martin

75, Lown

75, Moore

76, Ruppel

Coal

2, Ward

4, Dionne

8, Currens

9, Merritt

10, Williams

14, Finkelman

18, Akhinonbare

26, McDonald

42, Kopacz

46, Tsai

56, Hale

57, Horner

62, Navarro

63, Waddell

64, Iannacchione

64, Puglic

Sedimentary rocks (continued)

Chemical sedimentary rocks (continued)

Coal (continued)

68, Baldwin

68, Bedford

68, Buswell

69, Carlson

69, Melton

72, Dunn

74, Barrett

74, Franks

76, Thompson

82, Hamilton

84, Wallace

Conglomerate

4, Hazlett

7, Aber

47, Schreiner

Dolomite

4, Gore

8, Bowling

8, Johnson

22, Shukla

34, Stephenson

46, Scheerens

46, Turner

54, Collins

71, Chimahusky

74, Churnet

74, Ebers

74, Hersch

77, Gorody

78, Pedone

Limestone

1, Holler

4, Merin

5, Moore

6, Waters

9, Marashi

9, Niskanen

9, Price

20, Stoiber

22, Klara

28, Ottee

33, Garrison

34, Tobin

35, Bucher

35, Maxey

43, Musser

47, Mayer

47, Storck

48, Wilson

Sedimentary rocks (continued)

Chemical sedimentary rocks (continued)

Limestone (continued)

50, Blank
 51, Elmeier
 55, Chapman
 57, Prestwood
 63, Carothers
 64, Lee
 65, Crist
 70, Gibson
 71, Cooper
 71, Moody
 72, Cooper & Bergenback
 73, Williams & Bergenback

Sandstone

1, Holmes
 1, Shepard
 10, Taylor
 12, Nicholson
 12, Okolo
 12, Richers
 28, Pratt
 31, Hostenske
 33, Gardner
 33, Martin
 35, Austin
 35, Cox
 36, Suphasin
 37, Walters
 37, Warrner
 38, Orndorff
 38, Rothman
 38, Spraitzar
 40, Gracanin
 40, Griffith
 41, Hogg
 45, Ortega
 49, Main
 51, Giles
 52, McStraw
 53, Waldner
 57, McQuillen
 61, Houseknecht
 69, Perlman
 70, Daffener
 70, Przygocki
 71, Sanders
 73, McCullough and Bergenback
 73, Satterfield and Bergenback
 81, Arnold

Sedimentary rocks (continued)

Chemical sedimentary rocks (continued)

Sandstone (continued)

82, Hollingsworth
 82, Moore, S. B.
 85, Hiscott

Shale

5, Broekstra
 5, Highsmith
 5, Sedivy
 6, Craig
 10, Stevens
 11, Johnson
 11, Markowitz
 12, Miller
 12, Nunez
 13, Woock
 14, Hepburn
 15, Pachut
 16, Temudom
 25, Cornue
 25, Faulkner
 32, Calcagno
 33, Broadhead
 33, Jordan
 33, Provo
 33, Ranganathan
 34, Tobin
 34, VanBeuren
 35, Hollenbaugh
 36, Stollar
 39, Thomsen
 39, Weimer
 42, Kopacz
 43, Olson
 50, Anderson
 62, Oldham
 69, Geidel
 69, Pelletier
 71, Thorkildsen
 76, Shanmugam
 76, Sledz, J. J.

Siltstone

27, Avary

Sedimentary structures

Primary structures

51, Howell
 52, Morosky
 58, Coe
 58, Traver
 67, Yoder
 73, Robbs & Bergenback

Sedimentary structures (continued)

Secondary structures

Concretions

- 35, Hollenbaugh
- 43, Olson
- 43, Orr

Sediments

Chemicals

- 58, Balcom
- 75, Ketelle
- 75, Lowe

Clastic

- 4, Dionne
- 52, Kittinger
- 52, Kreps
- 65, Clark
- 75, Ketelle
- 87, Gallinger

Cave deposits

- 66, Jones

Glacial deposits

- 23, Caprio
- 40, Choate
- 41, Klein
- 42, Mallory
- 42, Mazgaj
- 58, Wardrop
- 60, Craig
- 62, Rhodes
- 88, McGrain

Lacustrine

- 19, Fortune
- 36, Szczepanowski

Seismic methods (see Geophysical methods, seismic)

Seismology

Crustal structure

- 6, Varma

Earthquakes

- 16, Newman
- 16, Williams
- 80, Whitehurst

Soil mechanics (see Engineering geology, soil mechanics)

Soils

Paleosols

- 26, Cox

Recent soils

- 52, Lerohl
- 52, Morgan
- 53, Robertson

Soils (continued)

Recent soils (continued)

- 53, Williams
- 55, Brechlin
- 58, Serlin

Stratigraphic paleontology (see Stratigraphy)

Stratigraphy

Precambrian basement

- 3, Branca
- 3, Kearns
- 3, Keller
- 11, Davis
- 13, Drennen
- 13, Rexroad
- 14, Mitra
- 39, Barbis
- 39, Bauman
- 42, McDaniel
- 54, Demmon
- 64, Haarr
- 69, Hanselman
- 74, Collins
- 75, Poppelreiter
- 80, Armstrong
- 85, Spitzer
- 86, Ferry

Paleozoic, general

- 3, Gohn
- 11, Davis
- 13, Patrick
- 24, Ghosh
- 34, Ulmschneider
- 41, Haden
- 50, Craig
- 51, Fellows
- 52, Popovich
- 84, Breakey
- 84, Ogunyomi
- 85, Pemberton
- 87, Larsen
- 87, Legall

Cambrian

- 2, Major
- 4, Gore
- 5, Broekstra
- 24, Moshier
- 33, Ranganathan
- 34, Webb
- 46, Doig
- 54, Collins

Stratigraphy (continued)

Cambrian (continued)

- 76, Siribhakdi
- 76, Sledz
- 79, Markello
- 79, Pfeil
- 80, Martin
- 80, Willoughby
- 86, Ferry

Ordovician

- 5, Mehrlens
- 6, McDaniel
- 7, Bell
- 8, Duncan
- 8, Lovitt
- 8, Mandell
- 9, Marashi
- 9, Norris
- 10, Baird
- 21, Dempster
- 21, Hughes
- 22, Conway
- 22, Harris
- 22, Klara
- 23, Bosworth
- 25, LaCroix
- 27, Diecchio
- 28, Otlee
- 34, Tobin
- 35, Bucher
- 35, Maxey
- 37, Chapman
- 37, Chimney
- 39, Bartman
- 40, Boger
- 40, Griffith
- 41, Gulick
- 41, Hoyle
- 41, Jacobson
- 42, Knabe
- 42, Line
- 42, Miller
- 43, Musser
- 43, Rowan
- 43, Schmidt
- 44, Stupp
- 46, Doig
- 55, Sarewitz
- 71, Thorkildsen
- 72, Anderson

Stratigraphy (continued)

Ordovician (continued)

- 73, McCullough & Bergenback
- 73, Satterfield & Bergenback
- 73, Swafford
- 74, Bowlin
- 74, Breland
- 74, Churnet
- 75, Lown
- 75, Maitland
- 75, Masuoka
- 75, Moore
- 76, Ruppel
- 76, Shanmugam
- 76, Sickafoose
- 76, Sitterly
- 76, Smith
- 77, Gorody
- 78, Grover
- 78, Lipp
- 79, Hight
- 79, Kreisa
- 79, Plants
- 80, Wilson
- 81, Merkel
- 84, Lake
- 85, Hein
- 85, Hiscott
- 85, Lamothe
- 85, Page
- 85, Strong
- 86, Crux
- 86, Dix
- 86, Kerr
- 86, Poey
- 86, Sandi
- 86, Smith
- 88, Johnson
- 88, Tarrant

Silurian

- 1, Sigman
- 2, Brabb
- 3, Zalusky
- 5, Moore
- 6, Belak
- 7, Warner
- 8, Bouknight
- 8, Bowling
- 8, Lovitt
- 8, Mandell
- 11, Gordon

Stratigraphy (continued)

Silurian (continued)

12, Nicholson
 14, Makurath
 16, Murray
 19, Freedenberg
 19, Pollastro
 20, Poppendeck
 21, Knowlton
 22, Shukla
 25, Bolle
 25, Gagliardi
 25, Rhinehart
 25, Wysocki
 28, Pratt
 28, Stock
 31, Andersen
 31, Lanz
 31, Lehle
 32, Requarth
 35, Austin
 35, Brown
 35, Cox
 36, Suphasin
 37, Walters
 38, Kallio
 38, Lovrak
 41, Kleffner
 44, Ukayli
 45, Otega
 46, Scheerens
 46, Turner
 46, Winegardner
 49, Main
 52, Langehan
 55, Chapman
 56, Coe
 56, Dubiel
 56, Evans
 56, Hallam
 56, Harraden
 57, Knowles
 57, Mackrides
 57, McQuillen
 57, O'Keefe
 57, Pisasale
 57, Prestwood
 57, Pringle
 58, Serlin

Stratigraphy (continued)

Silurian (continued)

58, Spurgeon
 65, Crist
 65, Faust
 65, Goodrum
 66, Reese
 67, Vreeland
 67, Yoder
 69, Martin
 85, Cheung
 88, Johnson
 88, Pearson

Devonian

1, Beavers
 1, Sutley
 2, Brabb
 2, Persons
 6, Craig
 8, Johnson
 11, Dillman
 11, Markowitz
 12, Miller
 12, Nunez
 12, Swager
 13, Woock
 14, Hepburn
 14, Makurath
 15, Inners
 15, Lockett
 15, Wood
 16, Kavary
 19, Petrillo
 19, Pollastro
 19, Wolosz
 20, Stoiber
 21, Marintsch
 21, Murray
 22, Collins
 22, Strife
 22, Turner
 22, Waldman
 23, Isley
 23, Bottjer
 23, Cassa
 23, Clark
 24, Corbo
 24, Coughlin
 24, Liebes
 24, McCollum

Stratigraphy (continued)
Devonian (continued)

25, Cornue
25, Faulkner
27, Avary
27, Diehl
27, Newton
32, Calcagno
32, Sparks
33, Broadhead
33, Jordan
33, Lundegard
33, Provo
34, Samuels
34, Stephenson
40, Ghist
43, Olson
44, Ukayli
45, Huffman
47, Mayer
47, Niles
49, Koch
51, Kamola
53, Silveri
53, White
54, Mirkin
54, Wright
55, Axtmann
55, Chapman
56, Cook
56, Davis
56, Egan
56, Fowler
57, Humphrey
57, Plumb
57, Rogers
58, Spurgeon
58, Traver
59, Geller
62, Love
62, Pirc
62, Rahmanian
63, Smith
63, Iole
65, Fisher, D. B.
65, Fritz
66, Murphy
67, Schollenberger
67, Weisbrich
67, Wissinger
67, Wood

Stratigraphy (continued)
Devonian (continued)

68, Dunne
80, Stubbs
81, Clarkson
81, Dowse
81, Evans
82, Horsey
83, Jepperman
85, Navickas
86, Bradfield
Mississippian
1, Holler
1, Holmes
1, Shepard
5, Hunter
5, Johnson
6, Miller
6, Waters
7, Anderson
8, Binkley
8, Dillenberger
8, Fink
9, Moore
9, Niskanen
9, Sanders
11, Birch
11, Chesnut
11, Lieber
11, Markowitz
12, Miller
12, Okolo
12, Pear
12, Swager
13, Hanford
24, Stancel
26, Cox
26, Gaylor
26, Slagle
28, Whitehead
31, Hostenske
33, Lee
33, Martin
33, Provo
34, VanBeuren
37, Warrner
38, Rothman
41, Hogg
45, Middleman
46, Ball
47, Weidner

Stratigraphy (continued)

Mississippian (continued)

50, Anderson
 51, Donan
 51, Giles
 53, Titus
 53, White
 54, Mirkin
 69, Canfield
 69, Carlson
 69, Dennis
 69, Geidel
 70, Bagby
 70, Daffener
 70, Gibson
 70, Sewell
 71, Cooper
 71, Kuczynski
 71, Moody
 71, Roper
 71, Sanders
 71, Waddle
 72, Cooper & Bergenback
 72, Robbs
 72, Roberts
 73, Garvich
 73, Williams & Bergenback
 77, Milliken
 81, Carpenter
 82, Heller
 83, Schamp
 84, Blakeney
 84, Boehner
 84, McCulloch
 86, Binney

Pennsylvanian

Undivided

4, Dionne
 8, Currens
 8, Ellsworth
 8, Fink
 8, Ketani
 9, Merritt
 10, Stevens
 10, Taylor
 12, Ping
 12, Richers
 13, Wixted
 26, Cox
 26, Gaylor
 26, McDonald

Stratigraphy (continued)

Pennsylvanian (continued)

Undivided (continued)

31, Hoover
 33, Gardner
 36, Oneacre
 36, Stollar
 48, Wilson
 51, Donan
 53, Reimers
 60, Austin
 62, Oldham
 63, Cain
 63, Carothers
 64, Dickson
 64, Lee
 64, Shulik
 68, Bedford
 69, Carlson
 69, Cummins
 69, Dennis
 69, Geidel
 69, Melton
 70, Sewell
 72, Davenport & Bergenback
 72, Eason
 73, Klinck
 73, Warren & Bergenback
 74, Barrett
 75, Minkin
 76, Thompson
 77, Thurmer
 84, Boehner
 Pottsville
 4, Dionne
 7, Anderson
 9, Price
 9, Sasso
 10, Acquaviva
 10, Wetmore
 11, Kells
 12, Ping
 24, Stancel
 33, Lee
 60, Griesmeer
 61, Houseknecht
 69, Perlman
 74, Claytor
 83, Presley
 Allegheny
 10, Sergeant

Stratigraphy (continued)

Pennsylvanian (continued)

Allegheny (continued)

- 29, Giuffria
- 31, Atwater
- 37, Crowell
- 53, Reimers
- 68, Buswell

Conemaugh

- 10, Walter
- 45, Lowe
- 63, Carothers
- 64, Payne
- 83, Nuhfer

Monongahela

- 28, Bickley
- 30, Olson
- 30, Torguson
- 30, Weise
- 38, Orndorff
- 39, Thomsen
- 39, Weimer
- 83, Moyer

Permian

- 38, Orndorff
- 39, Thomsen
- 39, Weimer
- 64, Dickson

Triassic

- 4, Fagin
- 4, Hazlett
- 60, Kluger
- 66, Lohrman

Pleistocene

- 7, Aber
- 23, Stupp
- 24, Gillespie
- 25, Duchossois
- 29, Hodges
- 30, Ryan
- 40, Choate
- 40, Edmister
- 41, Hoyer
- 41, Klein
- 42, Knabe
- 42, Koehl
- 64, Albright

Holocene

- 40, Brock
- 41, Hoyer

Streams (see Geomorphology, fluvial features; see Hydrogeology, streams)

Structural geology

General (see also Areal geology and structural geology under individual States and Provinces)

- 3, Keller
- 3, Porter
- 11, Kells
- 14, Boyer
- 14, Mitra
- 17, Chen
- 19, Petsrillo
- 20, Wilson
- 23, Bosworth
- 27, Mollar
- 34, Webb
- 48, Heidorn
- 48, Kompanik
- 48, Krupa
- 56, Egan
- 56, Hale
- 57, Humphrey
- 57, Knowles
- 57, O'Keefe
- 57, Pringle
- 58, Weitz
- 61, Hawman
- 65, Eaton
- 69, Jacobeen
- 75, Livingston
- 75, Poppelreiter
- 76, Roper
- 76, Shanmugam
- 76, Smith
- 77, Yust
- 77, Tieman
- 80, Stubbs
- 85, Spitzer

Cleavage (also see Structural geology, foliation)

- 26, McLeod
- 77, Wise

Faults

- 9, Phillips
- 9, Scott
- 10, Ammerman
- 14, Mitra

Structural geology (continued)

Faults (continued)

31, Cassetta
 45, Armstrong
 49, Main
 55, Nicholson
 75, Horton
 75, Ossi
 79, Kaygi
 79, Olson
 79, Schultz

Folds

12, Powers
 14, Mitra
 21, Smith
 50, Blank
 50, Brock
 52, Kreps
 58, Shiverick
 67, Vreeland
 79, Schultz
 80, Stubbs

Foliation

2, Sansone
 26, McLeod
 51, Gill
 58, Coe
 77, Wise
 81, Evans

Joints

2, Ward
 19, Murphy
 21, Knowlton
 54, Harms
 56, Demmy
 57, Ricci
 67, Wentz
 67, Wolckenhauer

Lineaments

9, McLoughlin
 52, Kiefer
 53, Robertson
 60, Abriel
 60, Canich
 61, Famy
 61, Kowalik
 62, Krohn
 62, Parrish
 62, Quaah
 63, Spiller
 65, Eaton
 82, LaCaze

Structural geology (continued)

Lineaments (continued)

82, Moore
 83, Mullenex
 83, Steffy
 84, Trumbo
 87, Nadon

Unconformities

4, Gregory

Talus (see Geomorphology, erosion features, talus)

Tennessee

Areal geology

70, Green
 72, Starnes
 73, Meachman
 74, Allen
 76, Slusarski
 77, Wilson

Chemical analysis methods

unspecified in title

74, Claytor
 74, Fletcher
 74, Franks
 75, Ketelle
 75, Lowe
 76, Thompson
 78, Pedone

Computer methods

74, Allen
 76, Sledz

Engineering geology

General

71, Watson

Geomorphology

Erosion features
General

70, Henderson

Erosion surfaces

2, Moreno-Agreda

Karst

70, Hampel
 76, Price

Lineaments

76, Slusarski

Geophysical methods

Gravity

76, Price

Seismic

76, Price
 79, Sodbinow

Tennessee (continued)

Hydrogeology
 Ground water
 74, Claytor
 74, Fletcher
 Igneous rocks
 Extrusions
 70, Davis
 70, Jackson
 Intrusions
 70, Henderson
 Pyroclastics
 76, Siribhakdi
 Mineral deposits
 Organic materials
 Coal
 74, Claytor
 74, Fletcher
 Metals
 Unspecified in title
 71, Jones
 Zinc
 74, Churnet
 74, Ebers
 Non-Metals
 Limestone
 75, Larsen
 Marble
 76, Sitterly
 Mineral exploration
 Photogeology
 76, Slusarski
 Paleontology
 Anthropoda
 75, Maitland
 Bryozoa
 73, Swafford
 Unspecified
 74, Breland
 Echinodermata
 Unspecified
 74, Breland
 Crinoidea
 11, Lieber
 Micro fossils
 Conodonts
 42, Line
 43, Schmidt
 Paleobotany
 Nonvascular plants
 75, Moore

Tennessee (continued)

Paleontology (continued)
 Paleobotany (continued)
 Palynormorphs
 71, Thurmer
 Paleoecology
 73, Swafford
 74, Breland
 75, Maitland
 75, Moore
 76, Sickafoose
 76, Sitterly
 Petrology
 Sedimentary petrology
 Heavy minerals
 71, Sanders
 Unspecified
 71, Cooper
 72, Robbs
 72, Roberts
 74, Bowlin
 74, Ebers
 74, Hersch
 75, Larsen
 76, Ruppel
 76, Sledz
 Sedimentary rocks
 Chemical sedimentary rocks
 Evaporites unspecified
 77, Milliken
 Iron ores
 71, Roper
 Carbonates unspecified
 5, Hunter
 75, Lown
 75, Moore
 76, Ruppel
 Coal
 69, Carlson
 74, Franks
 76, Thompson
 Dolomite
 74, Churnet
 74, Ebers
 74, Hersch
 77, Gordoy
 78, Pedone
 Limestone
 70, Gibson
 71, Cooper
 71, Moody

Tennessee (continued)

- Sedimentary rocks (continued)
 - Limestone (continued)
 - 72, Cooper & Bergenback
 - 73, Williams & Bergenback
 - Sandstone
 - 71, Sanders
 - Shale
 - 71, Thorkildsen
 - 76, Shanmugam
 - 76, Sledz
- Sedimentary structures
 - Primary structures
 - 73, Robbs & Bergenback
- Sediments
 - Chemicals
 - 75, Ketelle
 - 75, Lowe
 - Clastic
 - 75, Ketelle
- Stratigraphy
 - Precambrian basement
 - 3, Keller
 - 13, Drenner
 - 69, Hanselman
 - 74, Collins
 - 75, Poppelreiter
 - Paleozoic, general
 - 13, Patrick
 - Cambrian
 - 76, Siribhakdi
 - 76, Sledz
 - Ordovician
 - 42, Line
 - 43, Schmidt
 - 71, Thorkildsen
 - 72, Anderson
 - 73, Swafford
 - 74, Bowlin
 - 74, Breland
 - 74, Churnet
 - 75, Lown
 - 75, Maitland
 - 75, Moore
 - 76, Ruppel
 - 76, Shanmugam
 - 76, Sickafoose
 - 76, Sitterly
 - 76, Smith
 - 77, Gorody
 - Devonian
 - 2, Persons

Tennessee (continued)

- Stratigraphy (continued)
 - Mississippian
 - 5, Hunter
 - 11, Lieber
 - 28, Whitehead
 - 69, Carlson
 - 70, Gibson
 - 71, Cooper
 - 71, Kuczynski
 - 71, Moody
 - 71, Roper
 - 71, Sanders
 - 71, Waddle
 - 72, Cooper & Bergenback
 - 72, Robbs
 - 72, Roberts
 - 73, Garvich
 - 73, Williams & Bergenback
 - 77, Milliken
 - Pennsylvanian
 - Undivided
 - 69, Carlson
 - 72, Davenport & Bergenback
 - 72, Eason
 - 73, Klinck
 - 73, Warren & Bergenback
 - 75, Minkin
 - 76, Thompson
 - 77, Thurmer
 - Pottsville
 - 74, Claytor
 - Structural geology
 - General
 - 3, Keller
 - 75, Livingston
 - 75, Poppelreiter
 - 76, Roper
 - 76, Shanmugam
 - 76, Smith
 - 77, Yust
 - Cleavage
 - 77, Wise
 - Faults
 - 75, Horton
 - Well logging
 - 72, Fryar
- Terraces (see Geomorphology, erosion features, terraces)
- Thermal metamorphism (see Metamorphism, contact)

Till (see Geomorphology, glacial features, moraine; see Sediments, clastic, glacial)
 Tuff (see Igneous rocks, pyroclastics)

Virginia

Areal geology
 28, Shew
 29, Frlich
 30, Landin
 80, Truman
 Chemical analysis methods
 Isotope
 78, Baldwin
 Geochronology
 Radiometric
 64, Robison
 Geomorphology
 Erosion features
 General
 78, Johnson
 79, Houser
 Glacial features
 General
 13, Rexroad
 Geophysical methods
 Gravity
 20, Wilson
 Magnetic
 63, Borawski
 Seismic
 11, Greenburg
 78, Chapman
 79, Moore
 80, Hull
 Hydrogeology
 General
 80, Johnson
 80, Waller
 Igneous rocks
 Extrusions
 11, Bland
 Mineral deposits
 Metals
 Lead
 79, Henry
 80, Stalen
 Zinc
 78, Baldwin
 Organic materials
 Coal
 69, Cummins

Virginia (continued)

Mineral exploration
 Geochemical methods
 4, Sayala
 11, Bland
 11, Davis
 18, Serviss
 78, Foley
 Paleontology
 General
 26, Slagle
 80, Willoughby
 Microfossils
 Conodonts
 79, Hight
 80, Wilson
 Paleoecology
 26, Slagle
 27, Diehl
 27, Newton
 79, Plants
 80, Wilson
 Petrology
 Igneous petrology
 81, Stahl
 Sedimentary petrology
 Unspecified
 33, Lundegard
 Sedimentary rocks
 Conglomerate
 4, Hazlett
 Limestone
 26, Slagle
 Sandstone
 38, Orndorff
 Siltstone
 27, Avary
 Stratigraphy
 Precambrian basement
 11, Davis
 13, Rexroad
 14, Mitra
 80, Armstrong
 Paleozoic, general
 11, Davis
 Cambrian
 79, Markello
 79, Pfeil
 80, Martin
 80, Willoughby
 Ordovician
 78, Grover
 78, Lipp

Virginia (continued)

Stratigraphy (continued)

Ordovician (continued)

79, Hight
79, Kreisa
79, Plants
80, Wilson
81, Merkel

Devonian

27, Avary
27, Diehl
27, Newton
33, Lundegard
80, Stubbs

Mississippian

26, Slagle
28, Whitehead

Pennsylvanian

Undivided
69, Cummins
Monongahela
38, Orndorff

Permian

38, Orndorff

Triassic

4, Fagin
4, Hazlett

Structural geology

General

20, Wilson
80, Stubbs

Faults

14, Mitra
79, Kaygi
79, Olson
79, Schultz

Folds

12, Powers
79, Schultz
80, Stubbs

Waste disposal (see Engineering geology, waste disposal; see also Environmental geology listed under appropriate State or Province)

Weathering (see Soils)

Well-logging

22, Conway
22, Harris
22, Waldman
43, Musser

Well-logging (continued)

44, Stupp
48, Kidd
72, Fryar

West Virginia

Areal geology

29, Carnes
29, Cheek
29, Fantel
29, Foster
29, Frlich
45, Clark

Engineering geology

Landslides

82, Felton

Mines

69, Melton
82, Hamilton
82, Hilgar
82, Kimutus

Waste disposal

83, Stephen

Geomorphology

Erosion features

Terraces
83, Tewart

Karst

45, Clark
83, Ogden
85, Coward

Geophysical Methods

Paleomagnetic

39, Bartman
40, Choate
41, Istok
42, Kopacz

Hydrogeology

General

82, Heller
Ground water
69, Geidel
82, Hilgar
82, Moore
83, Ogden
83, Steffy

Streams

81, Akers
81, Campbell
82, Mathes
83, Steimle
83, Leti

West Virginia (continued)

Mineral deposits
 Organic materials
 Coal
 9, Monroe
 69, Carlson
 69, Melton
 Oil and gas
 83, Schamp
 Paleontology
 Micro fossils
 Conodonts
 33, Goodman
 40, Boger
 81, Clarkson
 Ostracods
 83, Reed
 Paleobotany
 Vascular plants
 82, Harr
 Paleoecology
 27, Newton
 47, Niles
 Petrology
 Sedimentary petrology
 Unspecified
 39, Thomsen
 39, Weimer
 Sedimentary rocks
 Coal
 4, Dionne
 26, McDonald
 42, Kopacz
 68, Bedford
 69, Melton
 82, Hamilton
 84, Wallace
 Sandstone
 31, Hostenske
 81, Arnold
 82, Hollingsworth
 82, Moore, S. B.
 Shale
 39, Thomsen
 39, Weimer
 42, Kopacz
 69, Geidel
 Siltstone
 27, Avary
 Sediments
 Clastic
 4, Dionne

West Virginia (continued)

Stratigraphy
 Paleozoic, general
 24, Ghosh
 Ordovician
 40, Boger
 Devonian
 27, Avary
 27, Newton
 47, Niles
 81, Clarkson
 81, Dowse
 82, Horsey
 83, Tepperman
 Mississippian
 26, Gaylor
 31, Hostenske
 69, Geidel
 81, Carpenter
 82, Heller
 83, Schamp
 Pennsylvanian
 Undivided
 26, Gaylor
 26, McDonald
 68, Bedford
 69, Geidel
 69, Melton
 Conemaugh
 83, Nuhfer
 Monongahela
 39, Thomsen
 39, Weimer
 83, Moyer
 Pottsville
 4, Dionne
 83, Presley
 Permian
 39, Thomsen
 39, Weimer
 Structural geology
 Faults
 79, Olson
 Foliation
 81, Evans
 Lineaments
 82, LaCaze
 82, Moore, R.
 83, Mullenex
 83, Steffy
 84, Trumbo