

Regional Geology And Tectonics Principles Of Geologic Analysis 1a

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The Geology and Tectonics of the Oman Region - A. H. F. Robertson 1990

Proceedings of an International Discussion Meeting held at the Royal Society of Edinburgh from March 29-31st, 1988, sponsored by the Geological Society of London and Amoco Production Company (International)

Principles of Stratigraphy - Michael E. Brookfield 2008-04-15

Principles of Stratigraphy reaffirms the vital importance of stratigraphy to the earth sciences, and introduces the undergraduate to its key elements in a lively and interesting fashion. First recent text devoted to stratigraphic principles and applications. Contains details of the latest stratigraphic techniques. Includes numerous case studies and real-world examples. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

Structural Geology - Haakon Fossen 2016-03-03

This market-leading textbook has been fully updated in response to extensive user feedback. It includes a new chapter on joints and veins, additional examples from around the world, stunning new field photos, and extended online resources with new animations and exercises. The book's practical emphasis, hugely popular in the first edition, features applications in the upper crust, including petroleum and groundwater geology, highlighting the importance of structural geology in exploration and exploitation of petroleum and water resources. Carefully designed full-colour

illustrations work closely with the text to support student learning, and are supplemented with high-quality photos from around the world. Examples and parallels drawn from practical everyday situations engage students, and end-of chapter review questions help them to check their understanding. Updated e-learning modules are available online (www.cambridge.org/fossen2e) and further reinforce key topics using summaries, innovative animations to bring concepts to life, and additional examples and figures.

Regional Geology and Tectonics: Principles of Geologic Analysis - David G. Roberts 2012-03-26

Expert petroleum geologists David Roberts and Albert Bally bring you Regional Geology and Tectonics: Principles of Geologic Analysis, volume one in a three-volume series covering Phanerozoic regional geology and tectonics. It has been written to provide you with a detailed overview of geologic rift systems, passive margins, and cratonic basins, it features the basic principles necessary to grasping the conceptual approaches to hydrocarbon exploration in a broad range of geological settings globally. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication A "how-to" regional geology primer that provides a detailed overview of tectonics, rift systems, passive margins, and cratonic basins The principles of regional geological analysis and the main geological and geophysical tools are discussed in detail. The tectonics of the world are captured

and identified in detail through a series of unique geographic maps, allowing quick access to exact tectonic locations. Serves as the ideal introductory overview and complementary reference to the core concepts of regional geology and tectonics offered in volumes two and three in the series.

California's Amazing Geology - Donald R. Prothero 2017-02-17

California has some of the most distinctive and unique geology in the United States. It is the only state with all three types of plate boundaries, an extraordinary history of earthquakes and volcanoes, and it has many rocks and minerals found nowhere else. The Golden State includes both the highest and lowest point in the continental US and practically every conceivable geological feature known. This book discusses not only the important geologic features of each region in California, but also the complex geologic four-dimensional puzzle of how California was assembled, beginning over 2 billion years ago. The author provides up-to-date and authoritative review of the geology and geomorphology of each geologic province, as well as recent revelations of tectonic history of California's past. There are separate chapters on some of California's distinctive geologic resources, including gold, oil, water, coastlines, and fossils. An introductory section describes basic rock and mineral types and fundamental aspects of plate tectonics, so that students and other readers can make sense of the bizarre, wild, and crazy jigsaw puzzle that is California's geological history.

Regional Geology and Tectonics - David G. Roberts 2012-12-31

Volume 1A: Principles of Geologic Analysis A "how-to" primer describes the basic concepts petroleum geologists and students need to understand hydrocarbon exploration in a broad range of geological settings globally. Volume 1B: Phanerozoic Rift Systems and Sedimentary Basins Incorporates industry data to present regional seismic lines and cross sections to accurately document and analyze proven hydrocarbon systems. It also includes summaries of analogue and theoretical models as an essential backdrop to the structure and stratigraphy of a variety of geological settings. Volume 1C: Phanerozoic Passive Margins,

Cratonic Basins and Global Tectonic Maps Focuses on both volcanic and non-volcanic passive margins as well as cratonic basins—critical habitats for hydrocarbons. It provides a unique basis for comparison of different passive margins and for an understanding of their structural and stratigraphic evolution, as well as their petroleum systems—especially useful to explorationists working in deep-water basins and researchers examining the tectonic evolution of the continent-ocean transition. A vast amount of data to enable hydrocarbon play assessments and analysis on passive margins is also included in this thorough yet accessible reference.

Individual volumes can also be purchased:
9780444530424 9780444563569

9780444563576 Volume 1A discusses in detail the principles of regional geological analysis and the main geological and geophysical tools used in basin analysis Volume 1B features simple documentation and analysis of major rift systems developed in contrasting geological settings as well as in-depth analyses of active rifts in various regions all over the world for immediately implementable petroleum exploration applications Volume 1C features real-world case studies and analyses, useful summaries of analogue and theoretical models, thorough documentation of numerous passive margins that are the focus of deep water oil exploration, and unique tectonic maps facilitating access to exact basin locations and their tectonic settings A companion website offers select downloadable images from the books:

<http://booksite.elsevier.com/9780444530424/index.php>

Special Papers - 1976

Tectonics and Structural Geology: Indian Context - Soumyajit Mukherjee 2018-10-30

This book presents a compilation of findings, review and original works, on the tectonic evolution and structural detail of several terrains in India. It captures the tectonic diversity of the Indian terrain, including tectonics of India's coastal areas, the tectonic evolution of Gondwana and Proterozoic (Purana) basins. It also describes the research results of the Indian craton's geo-history, Tertiary Bengal basin, and

also the Himalayan collisional zone. Thus the book covers the deformation history of Indian terrain involving strike slip, compressional and extensional tectonics, and ductile and brittle shear deformations.

Earth Structures - Stephen Marshak
2010-06-04

The Second Edition also benefits from new artwork that clearly illustrates complex concepts. New to the Second Edition: New Chapter: 15, "Geophysical Imaging," by Frederick Cook Within Chapters 21 and 22, four new essays on "Regional Perspectives" discuss the European Alps, the Altai, the Appalachians, and the Cascadia Wedge. New and updated art for more informative illustration of concepts. The Second Edition now has 570 black & white figures.

Regional Geology and Tectonics: Principles of Geologic Analysis - Nicola Scarselli 2020-06-17
Regional Geology and Tectonics: Principles of Geologic Analysis, 2nd edition is the first in a three-volume series covering Phanerozoic regional geology and tectonics. The new edition provides updates to the first edition's detailed overview of geologic processes, and includes new sections on plate tectonics, petroleum systems, and new methods of geological analysis. This book provides both professionals and students with the basic principles necessary to grasp the conceptual approaches to hydrocarbon exploration in a wide variety of geological settings globally. Discusses in detail the principles of regional geological analysis and the main geological and geophysical tools. Captures and identifies the tectonics of the world in detail, through a series of unique geographic maps, allowing quick access to exact tectonic locations. Serves as the ideal introductory overview and complementary reference to the core concepts of regional geology and tectonics offered in volumes 2 and 3 in the series.

Gravity and Magnetic Methods for Geological Studies - Dinesh C. Mishra 2011-11-28

Gravity and magnetic methods can be directly related to physical properties of rocks, i.e. the density and the susceptibility, and are very useful to field geologists and geophysicists in the mapping and identification of various rock types. They are also used for the detection of minerals

with large contrast in density and susceptibility compared to country rock. This reference volume consists of two parts: The first part describes the basic principles and methodology of the gravity and the magnetic methods of geophysical exploration with global examples. It deals with geological studies and gravity & magnetic methods; geodynamic studies (plate tectonics, crustal structures, plume tectonics); resource exploration (geological mapping, hydrocarbon, mineral and groundwater exploration); environmental studies (seismotectonics, engineering sites, climate changes, mining geophysics, volcanoes and volcanic activity, landslides, impact craters) and different modes of surveying. The second part is dedicated to the Indian Continent and deals with the application of geological data, integrated with other geophysical and geological information. It discusses geodynamics and seismotectonics with respect to the Indian Plate zone, including the Indian Ocean, Himalaya, Tibet and Archean- Proterozoic Cratons and Mobile Belts. It also presents ways for integrated exploration for hydrocarbons, minerals, groundwater and a number of environmental issues relevant in engineering and archaeology. The accessible style of this unique work will benefit researchers, professionals, advanced students and interested readers in Geophysics, Geology, Economic Geology, Geological Engineering, Geography, Mineralogy and related disciplines.

Ancient Landscapes of Western North America - Ronald C. Blakey 2017-10-03

Allow yourself to be taken back into deep geologic time when strange creatures roamed the Earth and Western North America looked completely unlike the modern landscape. Volcanic islands stretched from Mexico to Alaska, most of the Pacific Rim didn't exist yet, at least not as widespread dry land; terranes drifted from across the Pacific to dock on Western Americas' shores creating mountains and more volcanic activity. Landscapes were transposed north or south by thousands of kilometers along huge fault systems. Follow these events through paleogeographic maps that look like satellite views of ancient Earth. Accompanying text takes the reader into the science behind these maps and the geologic

history that they portray. The maps and text unfold the complex geologic history of the region as never seen before. Winner of the 2021 John D. Haun Landmark Publication Award, AAPG-Rocky Mountain Section

Rough-Hewn Land - Keith Heyer Meldahl
2011-11-15

"Unfold a map of North America," Keith Heyer Meldahl writes, "and the first thing to grab your eye is the bold shift between the Great Plains and the Rocky Mountains." In this absorbing book, Meldahl takes readers on a 1000-mile-long field trip back through more than 100 million years of deep time to explore America's most spectacular and scientifically intriguing landscapes. He places us on the outcrops, rock hammer in hand, to examine the evidence for how these rough-hewn lands came to be. We see California and its gold assembled from pieces of old ocean floor and the relentless movements of the Earth's tectonic plates. We witness the birth of the Rockies. And we investigate the violent earthquakes that continue to shape the region today. Into the West's geologic story, Meldahl also weaves its human history. As we follow the adventures of John C. Frémont, Mark Twain, the Donner party, and other historic characters, we learn how geologic forces have shaped human experience in the past and how they direct the fate of the West today.

Principles of Practical Tectonic Analysis of Cratonic Regions - Henry Lyatsky 1999-02-18
Steep crystalline-basement faults, commonly indicated by potential-field anomalies, played a crucial role in evolution of continental cratonic platforms. In the Phanerozoic Western Canada Sedimentary Province, history of crustal block movements and warps is reconstructed from the distribution of depocenters, lithofacies and structures in structural-formational tages in sedimentary cover. Each tage is a rock succession formed during a particular tectonic stage; regional tectonic restructuring closes each stage, and the next stage represents a new tectonic regime. Practical tectonic analysis, based on observation of rocks and geophysical data, is a reliable guide for deciphering a region's geologic history and for resource exploration.

**Regional Geology and Tectonics:
Phanerozoic Passive Margins, Cratonic**

Basins and Global Tectonic Maps - David G. Roberts 2012-05-31

Expert petroleum geologists David Roberts and Albert Bally bring you *Regional Geology and Tectonics: Principles of Geologic Analysis*, volume one in a three-volume series covering Phanerozoic regional geology and tectonics. It has been written to provide you with a detailed overview of geologic rift systems, passive margins, and cratonic basins, it features the basic principles necessary to grasping the conceptual approaches to hydrocarbon exploration in a broad range of geological settings globally. A "how-to" regional geology primer that provides a detailed overview of tectonics, rift systems.

Petroleum Geology and Resources of Northeastern Mexico - James A. Peterson 1985

World Geomorphology - E. M. Bridges
1990-11-30

Large scale relief features of the earth are emphasized to reveal how they are related to the major segments of the earth's crusts, known as lithospheric plates.

Tectonostratigraphic Terranes and Tectonic Evolution of Mexico - Richard L. Sedlock
1993-01-01

Tectonics of the Indonesian Region - Warren Bell Hamilton 1979

Rock Fractures in Geological Processes - Agust Gudmundsson 2011-04-28

Rock fractures control many of Earth's dynamic processes, including plate-boundary development, tectonic earthquakes, volcanic eruptions, and fluid transport in the crust. An understanding of rock fractures is also essential for effective exploitation of natural resources such as ground water, geothermal water, and petroleum. This book combines results from fracture mechanics, materials science, rock mechanics, structural geology, hydrogeology, and fluid mechanics to explore and explain fracture processes and fluid transport in the crust. Basic concepts are developed from first principles and illustrated with worked examples linking models of geological processes to real field observations and measurements. Many additional examples and exercises are provided

online, allowing readers to practise formulating and quantitative testing of models. *Rock Fractures in Geological Processes* is designed for courses at the advanced undergraduate and graduate level but also forms a vital resource for researchers and industry professionals concerned with fractures and fluid transport in the Earth's crust.

Geology of New York - Yngvar W. Isachsen 2000

Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps - David G. Roberts 2012-05-29

Expert petroleum geologists David Roberts and Albert Bally bring you *Regional Geology and Tectonics: Phanerozoic Passive Margins, Cratonic Basins and Global Tectonic Maps*, volume three in a three-volume series covering Phanerozoic regional geology and tectonics. Its key focus is on both volcanic and non-volcanic passive margins, and the importance of salt and shale driven by sedimentary tectonics to their evolution. Recent innovative research on such critical locations as Iberia, Newfoundland, China, and the North Sea are incorporated to provide practical real-world case studies in regional geology and tectonics. The vast amount of volcanic data now available to form accurate hydrocarbon assessments and analysis at passive margin locations is also included into this thorough yet accessible reference. Named a 2013 Outstanding Academic Title by the American Library Association's Choice publication A "how-to" practical reference that discusses the impact of the development of passive margins and cratonic basins on the structural evolution of the Earth in regional geology and tectonic applications. Incorporates the increased availability of industry data to present regional seismic lines and cross-sections, leading to more accurate analysis and assessment of targeted hydrocarbon systems. Analyses of passive margins and cratonic basins in East Africa, China, Siberia, the Gulf of Suez, and the Laptev Sea in the Russian Arctic provide immediately implementable petroleum exploration applications. Summaries of analogue and theoretical models are provided as an essential backdrop to the structure and stratigraphy of various geological settings.

Paleotectonics and Sedimentation in the Rocky Mountain Region, United States - James A. Peterson 1986

Geologic Maps - Edgar W. Spencer 2017-10-20
Geologic maps supply a wealth of information about the surface and shallow subsurface of the earth. The types of materials that are present in a location and the three-dimensional structure of the bedrock both can be gleaned from a clearly prepared geologic map. Geologists, civil and environmental engineers, land-use planners, soil scientists, and geographers commonly use geologic maps as a source of information to facilitate problem solving and identify the qualities of a region. Maps reveal the position of many types of natural hazards, indicate the suitability of the land surface for various uses, reveal problems that may be encountered in excavation, provide clues to the natural processes that shape an area, and help locate important natural resources. Suitable for lab courses in structural geology as well as field geology work, Spencer describes representative examples of features found on geologic maps and outlines procedures for interpretation and projection. Geometric techniques are explained using a step-by-step approach. Coverage of mapping methods includes tools that provide necessary data, such as Google Earth, GPS, GIS, LiDAR maps, drones, and aerial photographs. Challenging and engaging exercises throughout the text involve students in the mapping process and stimulate an appreciation of the extent and precision of information presented in geologic maps. Regional geology is an important component of lab and field mapping projects. As such, the Third Edition includes new maps of the Gulf of Mexico Coastal Plain, Rocky Mountain Front Range, Yellowstone region, Moab, Utah, Shenandoah National Park, and Hawai'i. A new chapter devoted to tectonic maps also broadens students' exposure. Ed Spencer brings over 45 years of teaching experience to the text along with valuable insight and clarity into the interpretation and preparation of geologic maps.
History of Geoscience - W. Mayer 2017-06-06
The study of the Earth's origin, its composition, the processes that changed and shaped it over time and the fossils preserved in rocks, have occupied enquiring minds from ancient times.

The contributions in this volume trace the history of ideas and the research of scholars in a wide range of geological disciplines that have paved the way to our present-day understanding and knowledge of the physical nature of our planet and the diversity of life that inhabited it. To mark the 50th anniversary of the founding of the International Commission on the History of Geology (INHIGEO), the book features contributions that give insights into its establishment and progress. In other sections authors reflect on the value of studying the history of the geosciences and provide accounts of early investigations in fields as diverse as tectonics, volcanology, geomorphology, vertebrate palaeontology and petroleum geology. Other papers discuss the establishment of geological surveys, the contribution of women to geology and biographical sketches of noted scholars in various fields of geoscience.

Encyclopedia of Geology - 2020-12-16

Encyclopedia of Geology, Second Edition presents in six volumes state-of-the-art reviews on the various aspects of geologic research, all of which have moved on considerably since the writing of the first edition. New areas of discussion include extinctions, origins of life, plate tectonics and its influence on faunal provinces, new types of mineral and hydrocarbon deposits, new methods of dating rocks, and geological processes. Users will find this to be a fundamental resource for teachers and students of geology, as well as researchers and non-geology professionals seeking up-to-date reviews of geologic research. Provides a comprehensive and accessible one-stop shop for information on the subject of geology, explaining methodologies and technical jargon used in the field Highlights connections between geology and other physical and biological sciences, tackling research problems that span multiple fields Fills a critical gap of information in a field that has seen significant progress in past years Presents an ideal reference for a wide range of scientists in earth and environmental areas of study

Structural Geology of Rocks and Regions, 3rd Edition - George H. Davis 2011-11-16

Relates the physical and geometric elegance of geologic structures within the Earth's crust and the ways in which these structures reflect the

nature and origin of crystal deformation through time. The main thrust is on applications in regional tectonics, exploration geology, active tectonics and geohydrology. Techniques, experiments, and calculations are described in detail, with the purpose of offering active participation and discovery through laboratory and field work.

Tectonics of Sedimentary Basins - Cathy Busby 2011-12-07

Investigating the complex interplay between tectonics and sedimentation is a key endeavor in modern earth science. Many of the world's leading researchers in this field have been brought together in this volume to provide concise overviews of the current state of the subject. The plate tectonic revolution of the 1960's provided the framework for detailed models on the structure of orogens and basins, summarized in a 1995 textbook edited by Busby and Ingersoll. *Tectonics of Sedimentary Basins: Recent Advances* focuses on key topics or areas where the greatest strides forward have been made, while also providing on-line access to the comprehensive 1995 book. Breakthroughs in new techniques are described in Section 1, including detrital zircon geochronology, cosmogenic nuclide dating, magnetostratigraphy, 3-D seismic, and basin modelling. Section 2 presents the new models for rift, post-rift, transtensional and strike slip basin settings. Section 3 addresses the latest ideas in convergent margin tectonics, including the sedimentary record of subduction initiation and subduction, flat-slab subduction, and arc-continent collision; it then moves inboard to forearc basins and intra-arc basins, and ends with a series of papers formed under compressional strain regimes, as well as post-orogenic intramontane basins. Section 4 examines the origin of plate interior basins, and the sedimentary record of supercontinent formation. This book is required reading for any advanced student or professional interested in sedimentology, plate tectonics, or petroleum geoscience. Additional resources for this book can be found at:

www.wiley.com/go/busby/sedimentarybasins.

Geology of the Book of Mormon - Jerry D. Grover (Jr.) 2015-01-05

An analysis of all geologic references in the Book

of Mormon. Geologic parameters for Book of Mormon geographical models are established. Includes an analysis of the Mesoamerican geographic model for the Book of Mormon
Fundamentals of Structural Geology - David D. Pollard 2005-09

A modern quantitative approach to structural geology and tectonics for advanced students and researchers.

Geologic Fracture Mechanics - Richard A. Schultz 2019-08-08

Introduction to geologic fracture mechanics covering geologic structural discontinuities from theoretical and field-based perspectives.

Geological Monitoring - Rob Young 2009

"Geologic Monitoring is a practical, nontechnical guide for land managers, educators, and the public that synthesizes representative methods for monitoring short-term and long-term change in geologic features and landscapes. A prestigious group of subject-matter experts has carefully selected methods for monitoring sand dunes, caves and karst, rivers, geothermal features, glaciers, nearshore marine features, beaches and marshes, paleontological resources, permafrost, seismic activity, slope movements, and volcanic features and processes. Each chapter has an overview of the resource; summarizes features that could be monitored; describes methods for monitoring each feature ranging from low-cost, low-technology methods (that could be used for school groups) to higher cost, detailed monitoring methods requiring a high level of expertise; and presents one or more targeted case studies."--Publisher's description.

Principles of Terrane Analysis - D.G. Howell 1994-10-31

This book introduces the reader to the principles of terrane analysis, and describes how accretion tectonics relates to classic plate tectonics theory and what this represents in terms of mountain building and continental growth processes. A forensic-like investigation of continental geology is detailed, integrating many different sub-disciplines of the Earth Sciences. The concepts outlined have a practical bent and help to explain the nature and occurrences of petroleum and metallic mineral deposits.

Principles of Geology - Sir Charles Lyell 1857

Salt Tectonics - Martin P. A. Jackson 2017-02-06

Salt tectonics is the study of how and why salt structures evolve and the three-dimensional forms that result. A fascinating branch of geology in itself, salt tectonics is also vitally important to the petroleum industry. Covering the entire scale from the microscopic to the continental, this textbook is an unrivalled consolidation of all topics related to salt tectonics: evaporite deposition and flow, salt structures, salt systems, and practical applications. Coverage of the principles of salt tectonics is supported by more than 600 color illustrations, including 200 seismic images captured by state-of-the-art geophysical techniques and tectonic models from the Applied Geodynamics Laboratory at the University of Texas, Austin. These combine to provide a cohesive and wide-ranging insight into this extremely visual subject. This is the definitive practical handbook for professional geologists and geophysicists in the petroleum industry, an invaluable textbook for graduate students, and a reference textbook for researchers in various geoscience fields.

Annals of the Former World - John McPhee 2000-06-15

The Pulitzer Prize-winning view of the continent, across the fortieth parallel and down through 4.6 billion years Twenty years ago, when John McPhee began his journeys back and forth across the United States, he planned to describe a cross section of North America at about the fortieth parallel and, in the process, come to an understanding not only of the science but of the style of the geologists he traveled with. The structure of the book never changed, but its breadth caused him to complete it in stages, under the overall title *Annals of the Former World*. Like the terrain it covers, *Annals of the Former World* tells a multilayered tale, and the reader may choose one of many paths through it. As clearly and succinctly written as it is profoundly informed, this is our finest popular survey of geology and a masterpiece of modern nonfiction. *Annals of the Former World* is the winner of the 1999 Pulitzer Prize for Nonfiction.

The Web of Geological Sciences: - Marion E. Bickford 2017-09-29

The web of geological sciences, Special papers 500 and 523, written in celebration of the 125th anniversary of the Geological Society of

America.

Applied Subsurface Geological Mapping with Structural Methods - Daniel J. Tearpock
2002-08-16

Applied Subsurface Geological Mapping, With Structural Methods, 2nd Edition is the practical, up-to-the-minute guide to the use of subsurface interpretation, mapping, and structural techniques in the search for oil and gas resources. Two of the industry's leading consultants present systematic coverage of the field's key principles and newest advances, offering guidance that is valuable for both exploration and development activities, as well as for "detailed" projects in maturely developed areas. Fully updated and expanded, this edition combines extensive information from the published literature with significant material never before published. The authors introduce superior techniques for every major petroleum-related tectonic setting in the world. Coverage includes: A systematic, ten-step philosophy for subsurface interpretation and mapping The latest computer-based contouring concepts and applications Advanced manual and computer-based log correlation Integration of geophysical data into subsurface interpretations and mapping Cross-section construction: structural, stratigraphic, and problem-solving Interpretation and generation of valid fault, structure, and isochore maps New coverage of 3D seismic interpretation, from project setup through documentation Compressional and extensional structures: balancing and interpretation In-depth new coverage of strike-slip faulting and related structures Growth and correlation consistency techniques: expansion indices, Multiple Bischke Plot Analysis, vertical separation versus depth, and more Numerous field examples from around the world Whatever your role in the adventure of finding and developing oil or gas resources—as a geologist,

geophysicist, engineer, technologist, manager or investor—the tools presented in this book can make you significantly more effective in your daily technical or decision-oriented activities.

Problems and Solutions in Structural Geology and Tectonics - 2019-02-26

Problems and Solutions in Structural Geology and Tectonics, Volume 5, in the series Developments in Structural Geology and Tectonics, presents students, researchers and practitioners with an all-new set of problems and solutions that structural geologists and tectonics researchers commonly face. Topics covered include ductile deformation (such as strain analyses), brittle deformation (such as rock fracturing), brittle-ductile deformation, collisional and shortening tectonics, thrust-related exercises, rift and extensional tectonics, strike slip tectonics, and cross-section balancing exercises. The book provides a how-to guide for students of structural geology and geologists working in the oil, gas and mining industries. Provides practical solutions to industry-related issues, such as well bore stability Allows for self-study and includes background information and explanation of research and industry jargon Includes full color diagrams to explain 3D issues

Physical Geology - Steven Earle 2019

"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.