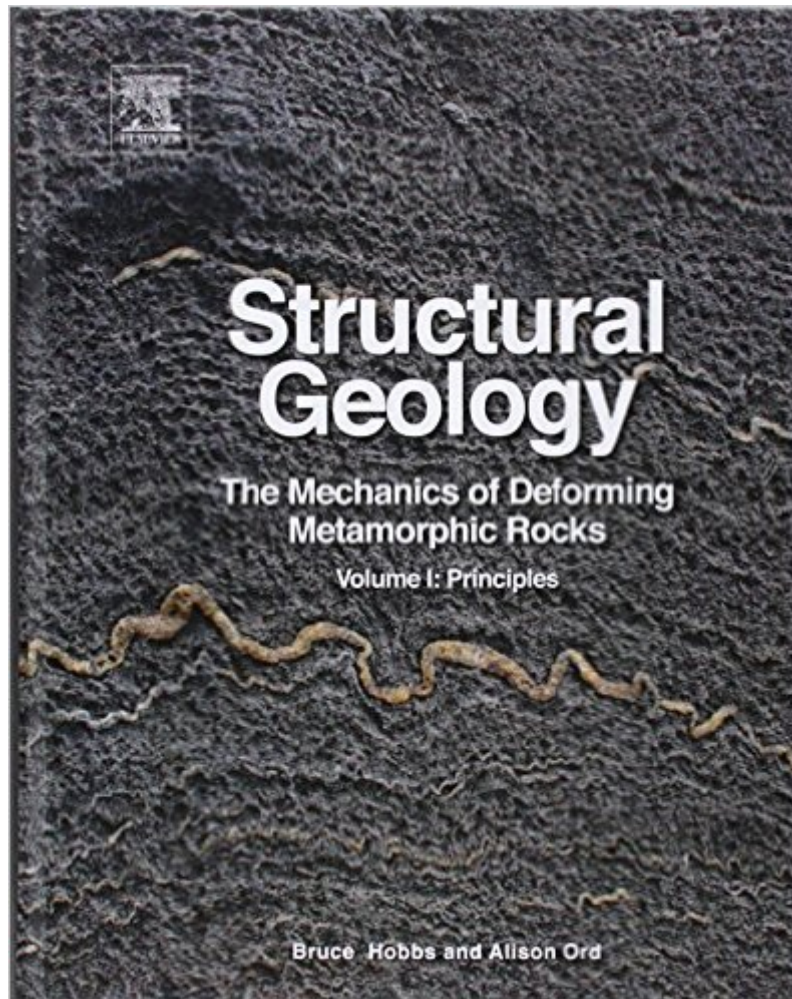


The book was found

Structural Geology: The Mechanics Of Deforming Metamorphic Rocks



Synopsis

Structural Geology is a groundbreaking reference that introduces you to the concepts of nonlinear solid mechanics and non-equilibrium thermodynamics in metamorphic geology, offering a fresh perspective on rock structure and its potential for new interpretations of geological evolution. This book stands alone in unifying deformation and metamorphism and the development of the mineralogical fabrics and the structures that we see in the field. This reflects the thermodynamics of systems not at equilibrium within the framework of modern nonlinear solid mechanics. The thermodynamic approach enables the various mechanical, thermal, hydrological and chemical processes to be rigorously coupled through the second law of thermodynamics, invariably leading to nonlinear behavior. The book also differs from others in emphasizing the implications of this nonlinear behavior with respect to the development of the diverse, complex, even fractal, range of structures in deformed metamorphic rocks. Building on the fundamentals of structural geology by discussing the nonlinear processes that operate during the deformation and metamorphism of rocks in the Earth's crust, the book's concepts help geoscientists and graduate-level students understand how these processes control or influence the structures and metamorphic fabricsâ€”providing applications in hydrocarbon exploration, ore mineral exploration, and architectural engineering. Authored by two of the world's foremost experts in structural geology, representing more than 70 years of experience in research and instruction Nearly 300 figures, illustrations, working examples, and photographs reinforce key concepts and underscore major advances in structural geology

Book Information

Hardcover: 680 pages

Publisher: Elsevier; 1 edition (December 10, 2014)

Language: English

ISBN-10: 0124078206

ISBN-13: 978-0124078208

Product Dimensions: 7.5 x 1.4 x 9.4 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #2,725,482 in Books (See Top 100 in Books) #43 in Books > Science & Math > Earth Sciences > Geology > Structural #717 in Books > Science & Math > Earth Sciences > Rocks & Minerals #5822 in Books > Textbooks > Science & Mathematics > Earth Sciences

[Download to continue reading...](#)

Structural Geology: The Mechanics of Deforming Metamorphic Rocks The Techniques of Modern Structural Geology, Volume 3: Applications of Continuum Mechanics in Structural Geology A Pictorial Guide to Metamorphic Rocks in the Field Exploring for Oil and Gas Traps (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) Studyguide for Structural Geology of Rocks and Regions by Davis, George H. By George H. Davis - Structural Geology of Rocks and Regions: 22nd (second) Edition Rocks and Minerals - A Guide to Minerals, Gems, and Rocks (Golden Nature Guides) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound] Principles of Igneous and Metamorphic Petrology Petrology: Igneous, Sedimentary, and Metamorphic Kansas Geology: An Introduction of Landscapes, Rocks, Minerals, and Fossils Second Edition, Revised Geology: A Folding Pocket Guide to Familiar Rocks, Minerals, Gemstones & Fossils (Pocket Naturalist Guide Series) Faulting in Brittle Rocks: An Introduction to the Mechanics of Tectonic Faults Structural Stability of Steel: Concepts and Applications for Structural Engineers The Encyclopedia of Structural Geology and Plate Tectonics (Encyclopedia of Earth Sciences Series) Structural Geology Basic Methods of Structural Geology Fundamentals of Structural Geology Structural Geology Algorithms: Vectors and Tensors

[Dmca](#)