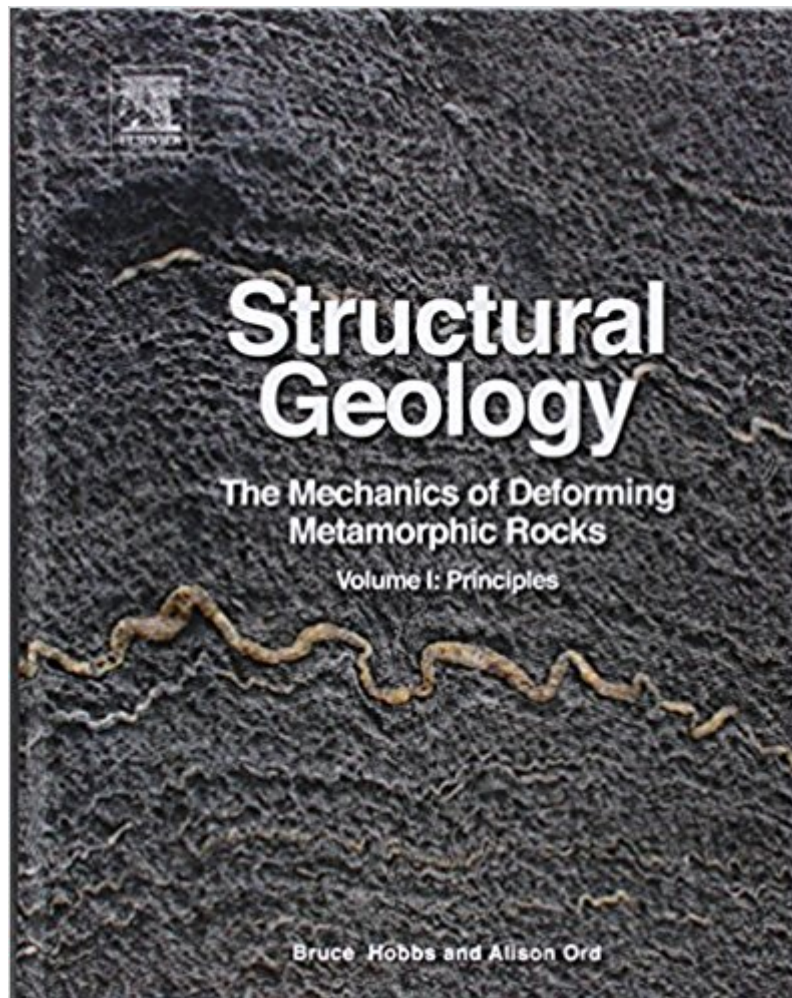


The book was found

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 fabrics—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: #3,549,825 in Books (See Top 100 in Books) #57 in [Books > Science & Math > Earth Sciences > Geology > Structural](#) #864 in [Books > Science & Math > Earth Sciences > Rocks & Minerals](#) #7025 in [Books > Textbooks > Science & Mathematics > Earth Sciences](#)

Customer Reviews

"...develop the relevant mathematics to describe the forces acting on the rocks and apply them to deformation, fluid flow, thermal transport and mineral reactions" --ATSE Focus "A long overdue treatment of the subject, this book is highly recommended and anticipated to become established as a standard reference work." --The Geological Society

[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 Metamorphic, Igneous and Sedimentary Rocks : Sorting Them Out - Geology for Kids | Children's Earth Sciences Books Rocks and Minerals of The World: Geology for Kids - Minerology and Sedimentology (Children's Rocks & Minerals Books) Structural Geology of Rocks and Regions Structural Geology of Rocks and Regions, 2nd Edition Structural Geology of Rocks and Regions, 3rd Edition By George H. Davis - Structural Geology of Rocks and Regions: 22nd (second) Edition Geology of the Baraboo district, Wisconsin;: A description and field guide incorporating structural analysis of the Precambrian rocks and ... Extension. Information circular, no. 14) 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] Structural Analysis and Synthesis: A Laboratory Course in Structural Geology, 2nd Edition Rocks and Minerals for Kids - Fun Facts & Pictures About Crystals and Gemstones, Geology & Much More (geology book) Mechanics in Structural Geology Geology for beginners: Easy course for understanding geology (Geology explained) Principles of Igneous and Metamorphic Petrology Petrology: Igneous, Sedimentary, and Metamorphic Essentials of Igneous and Metamorphic Petrology Lake Superior Rocks and Minerals (Rocks & Minerals Identification Guides) Michigan Rocks & Minerals: A Field Guide to the Great Lake State (Rocks & Minerals Identification Guides)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)