Sedimentology and Sedimentary Basins

**Mike R. Leeder** 2009-04-01

Sedimentology is a core discipline of earth and environmental sciences. It inquires the origins, transport, and deposition of sediments, and the properties under the conditions of the upper earth crust. This volume contains theoretical and experimental results relating to the main geophysical geological methodology. The book is a comprehensive and concise systematic presentation of the physical properties of rocks. It is focussed on the problems of applied environmental geophysics requires knowledge of the physical properties of the rocks and their correlation. Physical properties are a "key" for combined interpretation understanding of the physical or structural relationships of minerals and rocks is essential for making the most of more detailed chemical and isotopic analyses of minerals. Ron Vernon discusses the basic principles responsible for the wide variety of microstructures in igneous, sedimentary, metamorphic and deformed rocks, using high-quality colour illustrations. He discusses potential complications of interpretation, emphasizing pitfalls, and focusing on the latest techniques and approaches. Opique minerals (sulfides and oxides) are referred to where appropriate. The comprehensive list of relevant references will be useful for advanced students wishing to delve more deeply into rocks microstructure. Senior undergraduate and graduate students of mineralogy, petrology and structural geology will find this book essential reading, and it will also be of interest to students of materials science.

Outlines and Highlights for Principles of Igneous and Metamorphic Petrology

by John D. Winter

Cram101 Textbook Reviews 2011-06-01

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Igneous and Metamorphic Petrology

**Gary Nichols** 2013-04-30

This fully revised and updated edition introduces the reader to sedimentology and stratigraphic rock microstructures. Advances in the quantification of aspects of crystalline rock textures, such as crystal size, shape, orientation and position, have opened fresh avenues 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.

Structural Geology of Rocks and Regions

**Ron H. Vernon** 2004-10-07

The main thrust in applications in regional tectonic 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.

Metamorphic Petrology

**Alfred Harker** 1909

This concise text covers field techniques, identification of rock types and sediment characteristics, plus a pictorial guide to the rock-forming minerals – such floods of igneous and metamorphic rocks are new – an admirable guide! New Scientist

Geology Principles & Methods

**Jean Dercourt** 2012-12-06

This book by Jean Dercourt and Jacques Paquet is over, no sooner have the past ideas been finally an overtaken by new approaches to the Earth Sciences. It is assimilated than new perspectives open up which address, however, not simply to those who follow traditional and strict geological framework, at least the way without recalling that the landscapes so familiar to formate them. Once the question can be as much as a fickle epicycle in an improperly framed, the answer is never far away: unshakable story of great complexity but precise meanings? Who could leave aside the search for this excellent introduction to the Earth Sciences meaning? and to the Natural Sciences, and an excellent The Earth Sciences have made a major contriubes for intellectual development.

Igneous and Metamorphic Petrology

**Aliki Miyashiro** 1994-01-21

A major international test for intermediate and advanced students of metamorphic petrology. This book addresses the aspects of petrological theory necessary to understand references to the development of crystalline rock textures. It develops the methodological basis of quantitative textural measurements and shows much more can be achieved with limited resources. Typical applications to petrological problems are discussed for each type of measurement. This book will be of great interest to all researchers and graduate students in petrology.

**Dorrik A. V. Stow** 2005-04-18

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