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Igneous Petrology Anthony Hall ***2021-12-22***

INGRID BRYCE

Petrology of Igneous and Metamorphic Rocks
Longman Scientific and Technical
Mind over Magma chronicles the scientific effort to unravel the mysteries of rocks that solidified on or beneath Earth's surface from the intensely hot, molten material called magma. The first-ever comprehensive history of the study of such igneous rocks, it traces the development of igneous petrology from ancient descriptions of volcanic eruptions to recent work incorporating insights from physical chemistry, isotope studies, and fluid dynamics. Intellectual developments in the field--from the application of scientific methods to the study of rocks to the discovery of critical data and the development of the field's major theories--are considered within their broader geographical, social, and technological contexts. Mind over Magma examines the spread of igneous petrology from western Europe to North America, South Africa, Japan, Australia, and much of the rest of the world. It considers the professionalization and Anglicization of the field, detailing changes in publication outlets, the role of women, and the influence of government funding. The book also highlights the significant role that technological developments--including the polarizing microscope, high-temperature quenching furnaces, and instrumental analysis--have played in the discovery of new data and development of revolutionary insights into the nature of igneous rocks. Both an engagingly told story and a major reference, Mind over Magma is the only available history of this important field. As such, it will be appreciated by petrologists, geochemists, and other geologists as well as by those interested in the history of science.
Paperbound Books in Print
The Rosen Publishing Group, Inc
Key concepts in mineralogy and petrology are explained alongside beautiful full-color illustrations, in this

concisely written textbook.
Rocks Macmillan
This manual presents an introduction to igneous and metamorphic rocks, structures and processes.
Principles of Igneous and Metamorphic Petrology McGraw-Hill Science, Engineering & Mathematics
Rock microstructures provide clues for the interpretation of rock history. A good 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 processes 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 focussing on the latest techniques and approaches. Opaque minerals (sulphides 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 problems of rock 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.
The Field Description of Igneous Rocks Geobooks
Discusses rocks and the study of rock, including the different types, how they are formed, where they can be found on Earth, and how they are studied to learn more about the geological history of the Earth.
Trace Elements in Igneous Petrology Elsevier
With new chapters on volcanism, new appendices & sharper photos, together with extensive updating of the whole text, this new edition builds on the strengths of its predecessor.
Igneous Petrology Cambridge University Press
A laboratory manual for introductory courses in optical mineralogy. The illustrations are bandw, but available in color on a video cassette from the author. Annotation copyrighted by Book News, Inc., Portland, OR
Geology Springer Science & Business Media
A balanced text that bridges the gap between introductory petrography-oriented texts and the more advanced texts that have a thermodynamic and/or chemical approach. Well-indexed, well-referenced and written in a particularly readable style, it leads the reader from classical to modern concepts in igneous petrology.
Igneous Petrology Cambridge University Press
Fully updated new edition features a new introductory chapter and more end-of-chapter questions, guiding students to a mastery of petrology.
Plate Tectonics Elsevier Science & Technology
The field of Igneous Petrology has evolved greatly in the past years. McBirney's new Third Edition, completely revised and updated, presents a modern and integrated survey of the geological and genetic relations of igneous rocks. It illustrates how modern geochemical and geophysical methods can be combined with field relations to understand the generational and compositional evolution of magmas.

Principles of Igneous and Metamorphic Petrology ISSN
This textbook provides a basic understanding of the formative processes of igneous and metamorphic rock through quantitative applications of simple physical and chemical principles. The book encourages a deeper comprehension of the subject by explaining the petrologic principles rather than simply presenting the student with petrologic facts and terminology. Assuming knowledge of only introductory college-level courses in physics, chemistry, and calculus, it lucidly outlines mathematical derivations fully and at an elementary level, and is ideal for intermediate and advanced courses in igneous and metamorphic petrology. The end-of-chapter quantitative problem sets facilitate student learning by working through simple applications. They also introduce several widely-used thermodynamic software programs for calculating igneous and metamorphic phase equilibria and image analysis software. With over 350 illustrations, this revised edition contains valuable new material on the structure of the Earth's mantle and core, the properties and behaviour of magmas, recent results from satellite imaging, and more.
Magill's Survey of Science Magill's Choice
Trace Elements in Igneous Petrology ...
The Petrology of the Igneous Rocks Halsted Press
The second half of the past century witnessed a remarkable paradigm shift in approach to the understanding of igneous rocks. Global literature records a change from a classical petrographic approach to emphasis on mineral chemistry, trace element characteristics, tectonic setting, phase relations, and theoretical simulation of magma generation and evolution processes. This book contains contributions by international experts in different fields of igneous petrology and presents an overview of recent developments. This book is dedicated to the late Dr Mihir K. Bose, former professor of the Department of Geology, Presidency College, Calcutta, India, who actively participated in the development of this new global view of igneous petrology.
Igneous Petrology Pearson Higher Ed
This is a companion volume to the handbooks on sedimentary and metamorphic rocks published by the Geological Society of London in association with the Open University Press. Despite the title, this is more than just a guide to the study of igneous rocks in the field--it provides a concise, compact survey of many facets of igneous petrology. The chapter on volcanic rocks provides a particularly clear exposition of the various features encountered in modern volcanic environments, although serious students should know that palaeovolcanic rocks cannot always be satisfactorily interpreted in these terms. There is also a welcome coverage of the mineral deposits often associated with the later stages of granitic activity. The diagrams are clear and relevant, although some of the photographs suffered during reproduction. It would serve as a general introductory text, although it would need to a companion volume on thin-section petrology, at least for more serious students of the subject. Recommended as a well-

balanced attempt to foster a sensible, rational approach to the mysteries of igneous rocks in the field. It also fits the pocket--literally and figuratively.

The Natural History of Igneous Rocks Jones & Bartlett Learning

Reviews in Mineralogy & Geochemistry (RiMG) volumes contain concise advances in theoretical and/or applied mineralogy, crystallography, petrology, and geochemistry.

Earth Materials

McGraw-Hill Companies

Volume 1: Alluvial systems - Magmas. Pages 1-388.

The Petrology of the Sedimentary Rocks

Princeton University Press

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For a combined, one-semester, junior/senior-level course in Igneous and Metamorphic Petrology. Also useful for programs that teach Igneous Petrology and Metamorphic Petrology. Typical texts on igneous and metamorphic petrology are geared to either advanced or novice petrology students. This unique text offers comprehensive, up-to-date coverage of both igneous and metamorphic petrology in a single volume–and provides the quantitative and technical background required to critically evaluate igneous and metamorphic phenomena in a way that students at all levels can understand. The goal throughout is for students to be able to apply the techniques–and enjoy the insights of the results–rather than tinker with theory and develop everything from first principles.

Igneous Petrology

Cambridge University Press

The Survey makes accessible the core knowledge of the sciences to curious readers with no special preparation. Within the 377 articles here, 141 cover the major subfields of physical geology, 26 treat areas of economic geology, from essential minerals and other earth resources to the variety of ways man harnesses geothermal, wind, ocean, solar, and nuclear power. Thirty articles examine a range of issues in geochemistry. Geophysics is given full coverage in 35 articles. The planet's history, as well as its impact on the development of life and various early life forms, is explored in 22 articles on fossils, ice ages, dinosaurs, mass extinctions, and evolution. Water is examined in all its forms and sources in 27 articles. There are 36 articles on the solar system, eight on major mountain ranges, soils are done in eight, the atmosphere in 18. Averaging seven pages, articles begin with ready-reference matter and a list of principal terms. A summary section forms the major part of each article, providing a description of either the phenomenon or the methodology. "Context," the concluding section of each essay, presents the conclusions, applications, and implications derived from investigation of the topic. Finally, an annotated, selected bibliography directs the reader to sources that are accessible to the nonspecialist. Cross-references lists articles that offer additional information on the same or a related topic.

Topics in Igneous Petrology Cambridge University Press

Principles of Igneous and Metamorphic Petrology