

The Interpretation Of Igneous Rocks

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The Interpretation Of Igneous Rocks

All Earth Science students need to understand the origins, environments, and basic processes that produce igneous and metamorphic rocks. This concise introductory textbook provides students with the ...

Essentials of Igneous and Metamorphic Petrology

Mother Earth has been blowing off lots of steam lately — as well as ash and a mess of lava. The volcanic eruptions, and the pumice and other rock they ...

Volcanic lava sparks decorative design

First, let's talk about granite. The U.S. Geological Survey affirms it is an igneous rock, meaning solidified from lava or magma. It comes from the Latin word 'granum,' meaning grain, because of ...

VERIFY: Your granite countertop isn't 'diseased,' but here's why it might look that way

COEUR D'ALENE, ID Jersey Mining Company (OTCQB:NJMC) ("NJMC" or the "Company") is excited to announce additional high-grade gold assay results from its core drilling program in the Joe Dandy shoot at ...

New Jersey Mining Company Continues To Expand Mineralization (Including ...

Historically, artists and craftspeople who live in volcanically active regions have embraced the magnesium- and iron-rich igneous rocks. “ It ’ s a rock that ... a play on the Latin term ex cinere, ...

Home Fires: Volcanic lava sparks decorative design

Historically, artists and craftspeople who live in volcanically active regions have embraced the magnesium- and iron-rich igneous rocks ... Latin term ex cinere, meaning “ from ash. ” ...

Our aim in writing this book is to try to show how igneous rocks can be persuaded to reveal some of the secrets of their origins. The data of igneous rocks consist of field relations, texture, mineralogy, and geochemistry. Additionally, experimental petrology tells us how igneous systems might be expected to behave. Working on this material we attempt to show how hypotheses concerning the origins and evolution of magmas are proposed and tested, and thus illuminate the interesting and fundamental problems of petrogenesis. The book assumes a modest knowledge of basic petrography, mineralogy, classification, and regional igneous geology. It has a role complementary to various established texts, several of which are descriptively good and give wide coverage and evaluation of petrogenetic ideas in various degrees of detail. Existing texts do not on the whole, however, deal with methodology, though this is one of the more important aspects of the subject. At first sight it may appear that the current work is a guidebook for the prospective research worker and thus has little relevance for the non-specialist student of geology. We hope this will prove to be far from the case. The methodological approach has an inherent interest because it can provide the reader with problems he can solve for himself, and as an almost incidental consequence he will acquire a satisfying understanding.

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Annotation This book fulfills the lack of a modern analysis of the history of igneous petrology and will be a significant contribution. The author is a well-known igneous petrologist who appreciates the extent to which many geological questions are still awaiting definitive answers.

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 Second Edition of this unique pocket field guide has been thoroughly revised and updated to include advances in physical volcanology, emplacement of magmas and interpreting structures and textures in igneous rocks. The book integrates new field based techniques (AMS and geophysical studies of pluton shape) with new topics on magma mixing and mingling, sill emplacement and magma sediment interaction. Part of the successful Field Guide series, this book includes revised sections on granitic and basaltic rocks and for the first time a new chapter on the engineering properties of igneous rocks. The Geological Field Guide Series is specifically designed for scientists and students to use in the field when information and resources may be more difficult to access. Many editions have been updated for 2011 and the guides are: Student-friendly in design and cost Durable Lightweight Pocket-sized Reliable Concise Visit the series homepage at www.wiley.com/go/geologicalfield

This book is for geoscience students taking introductory or intermediate-level courses in igneous petrology, to help develop key skills (and confidence) in identifying igneous minerals, interpreting and allocating appropriate names to unknown rocks presented to them. The book thus serves, uniquely, both as a conventional course text and as a practical laboratory manual. Following an introduction reviewing igneous nomenclature, each chapter addresses a specific compositional category of magmatic rocks, covering definition, mineralogy, eruption/ emplacement processes, textures and crystallization processes, geotectonic distribution, geochemistry, and aspects of magma genesis. One chapter is devoted to phase equilibrium experiments and magma evolution; another introduces pyroclastic volcanology. Each chapter concludes with exercises, with the answers being provided at the end of the book. Appendices provide a summary of techniques and optical data for microscope mineral identification, an introduction to petrographic calculations, a glossary of petrological terms, and a list of symbols and units. The book is richly illustrated with line drawings, monochrome pictures and colour plates. Additional resources for this book can be found at: <http://www.wiley.com/go/gill/igneous>.

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