



Principles of Igneous and Metamorphic Petrology

By Anthony Philpotts, Jay Ague



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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.

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Editorial Review

Review

"This is a book to read and a book to keep as a reference. It is a must-have for every student of tectonics."
Michael L. Williams, EOS

"... a volume which will likely be well thumbed and littered with 'stickies' and other place markers by students and professors alike ... a 'must-have' for any self-respecting petrologist ..." Elements

"The scope of the subject is an enormous challenge for a single author, so I eagerly anticipated the second edition that included Jay Ague as coauthor to complement Philpotts' expertise in igneous petrology. My high expectations were not disappointed. There is a good index, an up-to-date and extensive reference section (27 pages) ... Thoughtful, substantive problems at the end of each chapter have solutions that are often integrated with the main text. ... This might seem to add up to just another petrology text that is an incremental improvement over its predecessors. In fact, it is an exceptional advance. ... I will choose the second edition of Philpotts and Ague's Principles of Igneous and Metamorphic Petrology because of its forward looking coverage of transport theory." John M. Ferry, American Journal of Science

"It emphasises principles rather than facts. The end-of-chapter problems for students are excellent." Tim Lutz, University of Pennsylvania

"I am very pleased to see the quality of this text. It will definitely be the best undergraduate petrology text when it appears on the shelf. You have a winner." C. Page Chamberlain, Dartmouth College

"The presentation is clear and concise, the illustrations extremely useful ... Of great utility are the problems at the end of each chapter ... This is a fantastic book." Steven R. Bohlen, President of Joint Oceanographic Institutions

"...unquestionably the best petrology work available. ... Highly recommended." CHOICE

From the Publisher

An introduction to the principles of igneous and metamorphic petrology.

From the Back Cover

Modern introduction to igneous and metamorphic rocks, structures, processes. The best-written text to come in this subject area in a long time.

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