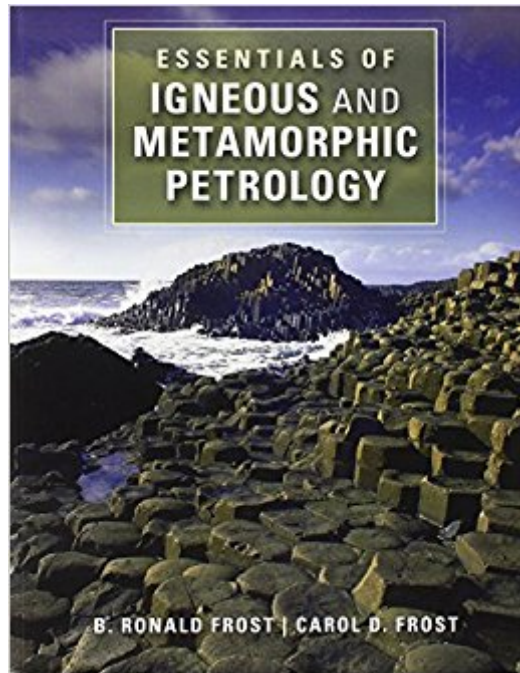




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# Essentials Of Igneous And Metamorphic Petrology



## Synopsis

All geoscience students need to understand the origins, environments and basic processes that produce igneous and metamorphic rocks. This concise textbook, written specifically for one-semester undergraduate courses, provides students with the key information they need to understand these processes. Topics are organized around the types of rocks to expect in a given tectonic environment, rather than around rock classifications: this is much more interesting and engaging for students, as it applies petrology to real geologic environments. This textbook includes over 250 illustrations and photos, and is supplemented by additional color photomicrographs made freely available online. Application boxes throughout the text encourage students to consider how petrology connects to wider aspects of geology, including economic geology, geologic hazards and geophysics. End-of-chapter exercises allow students to apply the concepts they have learnt and practice interpreting petrologic data.

## Book Information

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## Customer Reviews

"An authoritative and contemporary petrology textbook ideal for today's undergraduate student ... that distills the essence of igneous and metamorphic petrology." Joshua Schwartz, California State University"... a streamlined view of igneous and metamorphic petrology that is most appropriate for a one-semester undergraduate-level course." Jeffrey M. Byrnes, Oklahoma State University"... a soon to be very popular igneous and metamorphic petrology textbook, as it is truly written for the undergraduate geology major with just an introductory geology class and mineralogy as their background coursework ... I look forward to adopting this book!" Lawford Anderson, Boston

University"An introductory textbook that presents the basic principles of the subject matter in a simple and concise manner. Frost and Frost do a good job of linking igneous and metamorphic petrology to basic chemistry and major tectonic processes." Aley K. El-Shazly, Marshall University"... succeeds in its stated objective: to convey the essential petrologic information that is needed by all geoscientists ... will provide students with a solid, clearly written, well-illustrated foundation for understanding igneous and metamorphic rocks. I look forward to using this text in my own undergraduate petrology class." Calvin G. Barnes, Texas Tech University"The volume is very well illustrated with abundant clear appropriate maps, figures, and photos; additional color photos are available online. This book should be very successful in meeting the authors' stated objective of providing a concise text for a one-semester undergraduate course; it will also be a valuable resource for geologic professionals." M. E. McCallum, Choice"... I can highly recommend this book as a well-organized presentation of the essentials of igneous and metamorphic petrology and their application in an up-to-date mix of modern geochemistry and plate tectonics." American Mineralogist

Concise introductory textbook on the petrology of igneous and metamorphic rocks for one-semester courses. Topics are organized around the types of rocks to expect in tectonic environments, rather than around rock classifications. Application boxes engage students by showing how petrology connects to wider aspects of geology. Includes end-of-chapter exercises.

This excellent text, less forbiddingly long than many of its competitors, will deservedly become a go-to choice for one-semester undergraduate petrology courses. The book is concise, to be sure, but it is also packed with information. However, one effect of this admirable compression is that, in my opinion, Frost and Frost cannot be recommended for self-study. Students will need the guidance of an expert teacher to benefit from it fully. Those desiring more extended treatments of igneous and metamorphic petrology will no doubt continue to use the superb texts of Winter; Philpotts and Ague; and Best. Regrettably, the gremlins have been working overtime in the production of this book. There are literally dozens and dozens of typographical and editorial errors, particularly with regard to diagrams and maps (the glitches extend to hundreds if one includes problems with bibliographic citations and the index). Fortunately, most of the mistakes are obvious and will not affect comprehension; the teacher can guide students around the more serious and insidious ones. Such lapses are unexpected in a book from Cambridge University Press. The publisher ought to follow the admirable example of, e.g., Winter in posting corrigenda on a website immediately, and in

addition should produce a corrected and more carefully edited printing at the earliest opportunity. Students and professors will no doubt appreciate the reasonable price.

Disappointed at lack of color photos or figures.

i chose this rating because this book is very informative and useful. I would recommend this textbook to any undergraduate geology student.

I had to get this for mineralogy, and this book was assigned for no other reason than one of the authors is a personal friend of my instructor. This book has a number of typos. It has practice activities but no answers in the back to quiz yourself with. The book is oversimplified at some points barely scratching the surface of the material making terrible practice for any sort of test, while other parts will take nose dive into convoluted complicated material leaving you confused assuming the reader has already had higher up mineralogy classes. I had to look elsewhere for help.

Nice quality, received the book way ahead of when I expected.

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