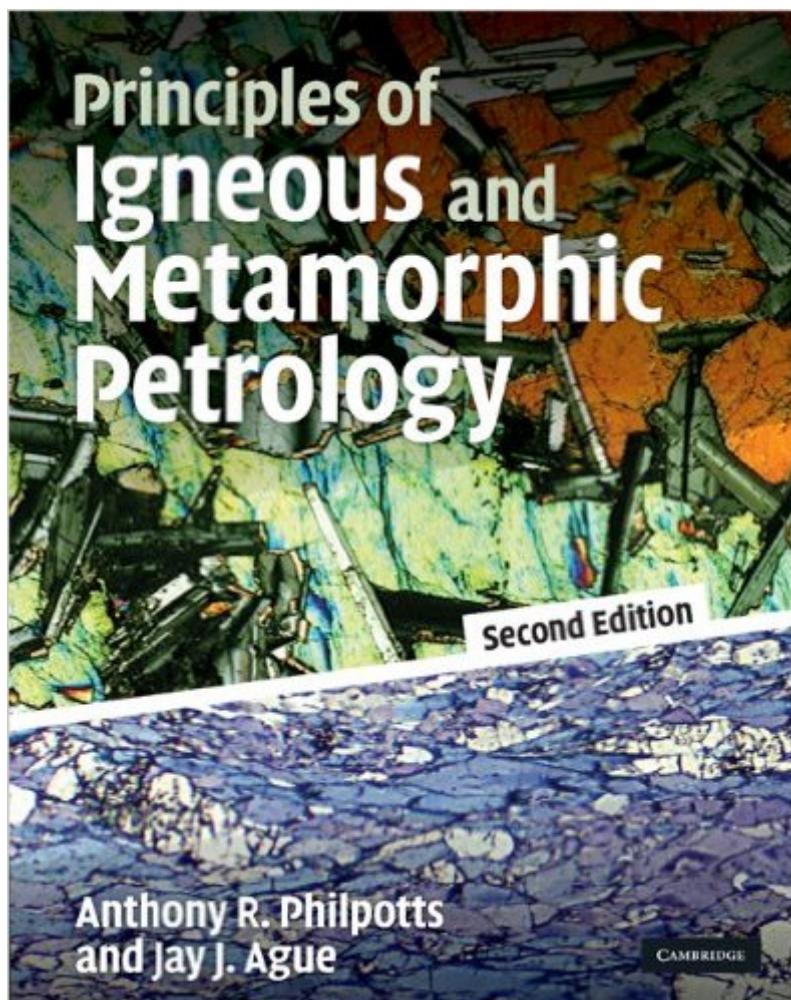


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# Principles Of Igneous And Metamorphic Petrology



## **Synopsis**

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.

## **Book Information**

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## **Customer Reviews**

This text covers both physical and chemical aspects of igneous and metamorphic rocks in the clearest, best organized, and most succinct book on the topic. Examples are given, but not huge volumes of extraneous or trivial detail. A serious book that bears close reading, but covers the topics in a logical progression from the most basic ideas to sound conclusions. Excellent problems at the end of each chapter enlarge your understanding. Some more recent texts cover more ground but become unreadably long for students. I taught a one semester course from this book several times.

This book was required for our Petrology class. Apparently it's a grad-level book and this was an undergrad class. I rented it off chegg but ended up just buying it. I would definitely recommend this book to anyone who's planning on going into Petrology/Geochem in grad school. It was a little challenging at times to read but overall very, very helpful.

I bought this book by mistake for a course that required a different "Principles of Igneous and Metamorphic Petrology." I found that the book I had was much better, and had many more insightful details and geographic specificities that the other did not have. Overall, I think I did better in the course because I had the better book, and you can really learn anything from this book without having to be enrolled in the class!

This book covers all aspects of igneous and metamorphic petrology from a more quantitative perspective. It emphasizes the key physical and chemical principles necessary not only for understanding igneous and metamorphic rocks, but also the mechanism and processes accompanying their formation, using basic mathematical tools. What makes it even better is that this book is surprisingly easy to follow as much as it is pleasant to read, considering that I am a geophysicist (with only some knowledge about general petrology) and not a dedicated geologist/petrologist. I would recommend this book not only as a textbook for undergraduate students in igneous and metamorphic petrology course, but also as a reference for earth scientists with various backgrounds.

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