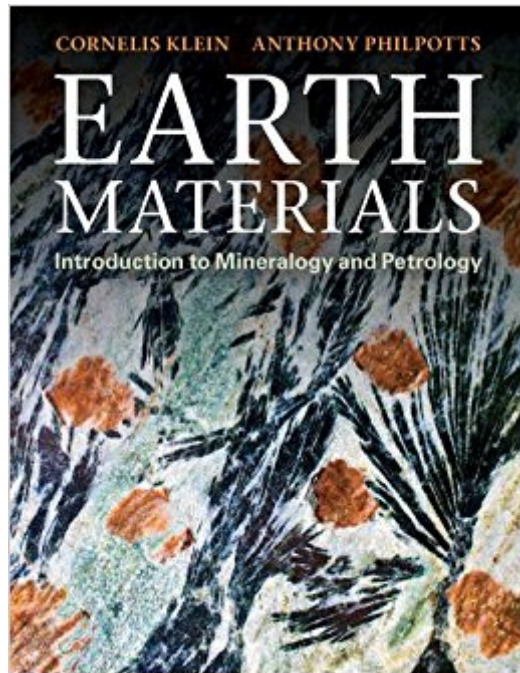




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# Earth Materials: Introduction To Mineralogy And Petrology



## Synopsis

The fundamental concepts of mineralogy and petrology are explained in this highly illustrated, full-color textbook to create a concise overview for students studying Earth materials. The relationship between minerals and rocks and how they relate to the broader Earth, materials and environmental sciences is interwoven throughout. Beautiful photos of specimens and Crystal-Maker's 3-D illustrations allow students to easily visualize minerals, rocks and crystal structures. Review questions at the end of chapters allow students to check their understanding. The importance of Earth materials to human cultural development and the hazards they pose to humans are discussed in later chapters. This ambitious, wide-ranging book is written by two world-renowned textbook authors each with over 40 years of teaching experience, who bring that experience to clearly convey the important topics.

## Book Information

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## Customer Reviews

"The Klein and Philpotts text offers the perfect blend of basic concepts with beautiful illustrations and descriptions of the essential Earth materials for introductory students in geology and environmental geoscience courses. The book is well written and advanced concepts that are introduced are appropriate for the level. This book is destined to become widely adopted in Earth materials courses in the new, more environmentally conscious Earth science curriculums." Chris Hepburn, Professor of Geology and Acting Chair, Earth and Environmental Sciences Department, Boston College, Massachusetts "While maintaining the mineralogical and petrological rigor for which these two Earth scientists are well known, this textbook makes minerals and rocks extremely

interesting even to those who don't already know that they are. This excellent textbook makes it is easier for students to learn about Earth materials by presenting rocks and minerals in the context of their geologic environment. Rock nomenclature is easier to remember, as it is presented in tandem with photographs of rocks and thin sections. I thoroughly recommend this textbook, and I am planning to use it in my own courses." Jo Laird, Associate Professor of Geology, Department of Earth Sciences, University of New Hampshire

"This book is outstanding! Clearly and engagingly written and magnificently illustrated (the cover alone makes one want to open the book!), this is destined to be the text of choice for Earth Materials courses for a long time." Sheila Seaman, Associate Professor of Geology, Department of Geosciences, University of Massachusetts, Amherst

"This well organized and attractive volume fills an important niche by providing an integrated mineralogy-petrology textbook that can serve a stand-alone one-semester course or be used to provide the foundation for additional coursework in the discipline. Countless students have benefitted from Kase and Tony's textbooks over the years. I am confident that countless more will gain from the new volume." Brandon E. Schwab, Professor and Chair, Department of Geology, Humboldt State University

"This well laid out and beautifully illustrated book is ideal for a one-semester introductory course that covers the basics of mineralogy, optical mineralogy and the petrology of igneous, sedimentary and metamorphic rocks. The summary and review questions at the end of each chapter and the online resources are particularly useful for students and teaching purposes. I will certainly adopt the book for my course." Ralf Gertisser, Senior Lecturer in Mineralogy and Petrology, School of Physical and Geographical Sciences, Keele University, UK

"This is a long-awaited text on Earth materials by two distinguished mineralogists/petrologists. The present book stands out among others in that it contains many excellent color figures and photos. I would adopt this book in my course carrying the same title." Yuch-Ning Shieh, Department of Earth, Atmospheric and Planetary Sciences, Purdue University

"If I were to teach anew a course in "Earth materials", which of the two textbooks would I choose? Without hesitation, it would be [Earth Materials] ... To start, [it] has by far the better balance of subjects. ... To conclude, Klein and Philpotts' Earth Materials is an outstanding text for today's curricula. It is well written, logically organized, and beautifully illustrated. Indeed it is a fine capstone to the careers of two distinguished geologists." Tomas Feininger, The Canadian Mineralogist

"Written by two eminent university professors, this is remarkable assemblage of all information needed for a solid foundation in mineralogy and petrology. Students of these subjects will find this an important and all-inclusive reference in studying the major rock groups and the chemistry of minerals ... the serious mineral collector can also gain a useful and sound understanding of the earth sciences from this informative

work ... intended for serious students and will serve very well as a textbook in a mineralogy or petrology classroom." Bob Jones, Rock and Gem"... this book is hard to beat. The basics are all there to prepare and excite students for more advanced courses in crystallography, petrology, and geotectonics. The book is meant for a one-semester course in Earth materials, but I use it for two semesters - one on mineralogy and one on petrography/introductory petrology." Jo Laird, American Mineralogist

The fundamental concepts of mineralogy and petrology are explained in this highly illustrated, full-color textbook written specifically for students studying Earth materials. The relationship between minerals and rocks is interwoven throughout and their uses and hazards discussed. Crystal-Maker's 3-D illustrations allow students to easily visualize crystal structures.

I've been looking for a book like this for a long time. I collect rocks and minerals and am interested in geology, but most the textbooks are too technical and too expensive. I wanted to know how minerals form, what their make up is, how they differ from rocks, etc. This book explains that, and is written well. The photos are gorgeous! I'm not a student, but I'm very interested in what the earth is made of. The title of this book grabbed me and has held me interested to read every page. If you are interested in rocks and minerals, and geological processes, this book is for you.

I studied geology many year ago. Trying to revise things especially about minerals, I was about to buy a mineralogy book....thought of Dana's book but this was a better choice...its not just mineralogy, somewhat generic... and all the images are in color (an extremely rare thing for geology books)....A good book for someone who wants to revise many things by buying just one book! let me put it this way ...this book is mineralogy + igneous and metamorphic petrology with thousands (may be) of images in color.. worth its price

If you are buying this because you are a geology major, ask if your professor will recommend another book. I would recommend buying the right book for petrology and mineralogy separately instead. My university started using it as a compromise, but in the end both my mineralogy and petrology professor did not like this book.

This is an excellent book but it does require some background in chemistry and it was written to be used as a college text book. It is not a casual read type of book. If you are really into mineralogy and

petrology it is a good book to have on hand and spend considerable time studying it. It is a different approach to Mineralogy and a welcome one.

I have struggled through three "standard" textbooks of mineralogy before. This book is by far one of the best books I have studied not only in mineralogy, but in any geology course I have taken. I understand why it is so highly recommended.

This book has been a very good choice. It's been quite useful for studying petrology and mineralogy, because it has a lot of representative images, good examples and easy texts.

Thank you very much . very good information . good packing . Blessings

Good book. Lots of awesome pictures and diagrams.

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