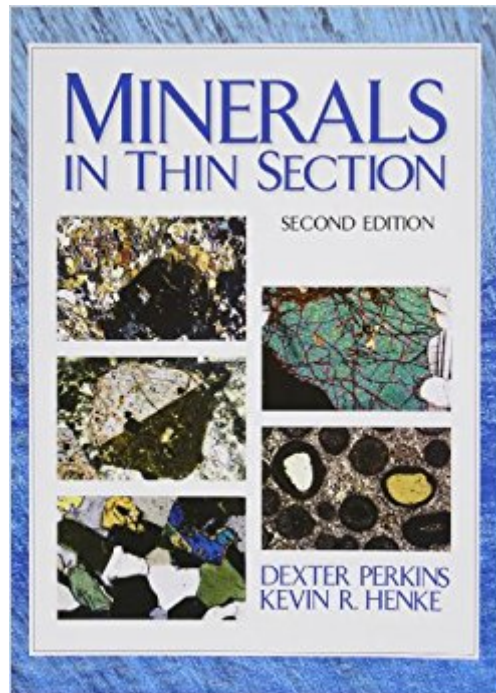




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Minerals In Thin Section (2nd Edition)



Synopsis

This clear and concise book assists learners as they look at thin sections. It focuses on the practical, need-to-know information absolutely necessary for work in the laboratory. **KEY TOPICS** Chapter topics cover: what is light?, polarization of light and the polarizing microscope, the velocity of light in crystals and the refractive index, interaction of light and crystals, other mineral characteristics in thin sections, and a detailed mineral description. For individuals interested in mineralogy and/or petrology.

Book Information

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Customer Reviews

This is the second edition of a concise, straightforward, and balanced presentation of the theory and techniques of optical mineralogy. Designed for students to have on hand in the laboratory, this manual includes data and photos for all major igneous, metamorphic and sedimentary minerals. Minerals in Thin Section is the perfect supplement for mineralogy, optical mineralogy, and petrography courses. Includes: Part I: Theoretical Considerations; discussing the interaction of minerals and light, the properties of minerals in thin section, and the most practical aspects of optical mineralogy. Part II: Identifying Minerals in Thin Section; describing in detail the most common and significant or special minerals (see mineral index), including: name, formula, occurrence, distinguishing features, similar minerals, properties and interference figures, color, form, cleavage, relief, interference colors, extinction and orientation, and twinning. Box 2 (inside back cover) provides a straightforward process users can follow in order to determine a mineral's properties. Contains 34 pages of color photographs, including at least one for each of the 60

minerals described in detail, to illustrate the minerals in thin sections and to help students with mineral identification. Appendices containing additional information on: Common Opaque Minerals; Isotropic Minerals Ordered by Refractive Index; Uniaxial Minerals Sorted by Optic Sign and Ordered by Refractive Index; Biaxial Minerals Sorted by Optic Sign and Ordered by Refractive Index; Minerals Ordered by Interference Colors and Sorted by Optic System and Optic Sign; and an Alphabetical List of Minerals and Mineral Properties.

Dr. Dexter Perkins received his Ph.D. from the University of Michigan in 1979. He has published over 80 papers and three books. He has had research appointments at the University of Chicago and the Université Blaise Pascal and has been a regular faculty member in the Department of Geology and Geological Engineering at the University of North Dakota for more than 20 years. His current research is focused on mineral equilibria and science education reform. Kevin R. Henke received his Ph.D. in geology from the University of North Dakota in 1997. He has had research and postdoctoral appointments at Oak Ridge National Laboratory, in the Chemistry Department at North Dakota State University, and in the Chemistry Department at the University of Kentucky. He has also taught in the Department of Geological Sciences at the University of Kentucky. Currently, he is researching the chemistry and environmental impacts of mercury and other heavy metals as an employee of the Center for Applied Energy Research at the University of Kentucky, Lexington.

This book was a lifesaver in my optical mineralogy course. Although it wasn't required, it was recommended for the lab portion. Here's why - it's got all the answers in it. If you need to know whether a particular mineral is uniaxial or biaxial, positive or negative, and what its refractive indices are, this book will tell you, along with much more. The pictures are clear, really textbook examples of what the minerals should look like; the descriptions are easy to understand. At the front, before the list of minerals, is a bit of a primer on how the optical stuff works, interference figures, mineral microscopy techniques, pleochroism, interference colors, etc; at the end are several lists that group data together and help you find the information you need, fast. This book of course isn't comprehensive, no volume could be, but it does cover most of the basics. If you're taking a mineralogy course that includes microscopy, you should give this one a look.

First time mineralogy student.. My book (textbook) fails miserably in the picture department, regarding some scratch test information (this book is not offering that information to the best of my knowledge!) and for descriptive ability..I am halfway through the semester, and have bought several

additional books looking for one that can help me pick my way through this course..This one is very good. It's not perfect, doesn't offer all the varieties in color pictures, not even the ones described within, but it provides a noteworthy number, has excellent tables, and explains things fairly well.. Better than my 130 dollar used textbook, and I would also like to note that the refracting spectrum ? I obviously still have a long way to go lol) is better than any I have so far seen. The colors are portrayed much, much better, there's actually a discernible difference between the three or four levels and I'm impressed with that.. speaks well of the printer they used.I recommend it to my classmates.. Evidently it's the unmentioned optional lab manual to the class lol..I think it's fabulous.. better than most of the reference works I've seen in the past several months.

This book is amazing! I would not have gotten through my Mineralogy or Petrology labs without this book. It shows you exactly what you should be looking for when identifying minerals in thin section.

very detailed book. lots of information.

This book has some pretty good pictures in it, however cross sections are not labeled so you can identify the minerals individually. They just put a mass list below the images and expect you to be able to identify them. Really horrible if you have an instructor that gives you an assignment to id minerals but doesn't show you what they look like first.

This book is awesome! It arrived in great shape - as expected - and I'm poking through it occasionally. I'm still yet to use it in lab, but scanning the book has already been helpful.

Despite its price this is a great book to have for aspiring geologist or anyone taking a mineralogy class. It has clear colored pictures of how the thin sections supposed to look under the microscope which helps greatly in lab classes. It is also very detailed about mineral optics without having to look all over the book.

I bought this for a geology class. It wasn't required, but the lab TA said it helped her when she was an undergrad. She was right. This book is great. It not only has a description of what the mineral should look like, but also has really nice color images. This should be standard issue for any class looking at thin sections.

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