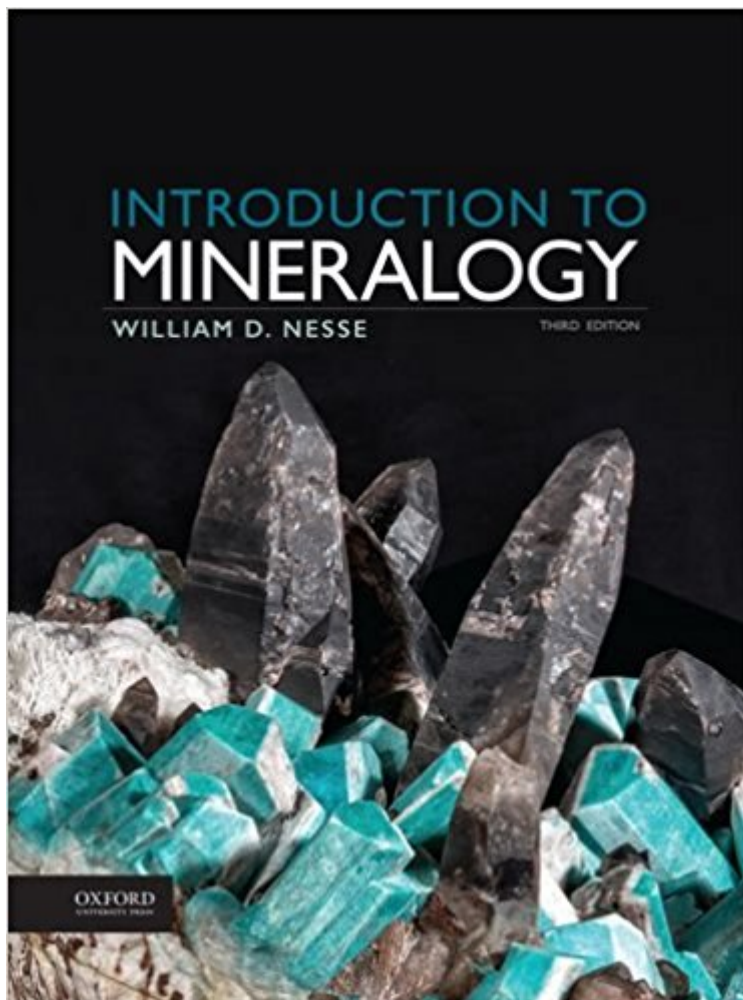




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# Introduction To Mineralogy



## Synopsis

Introduction to Mineralogy, Third Edition, consolidates much of the material now covered in traditional mineralogy and optical mineralogy courses and focuses on describing minerals within their geologic context. Presenting the important traditional content of mineralogy--including crystallography, chemical bonding, controls on mineral structure, mineral stability, and crystal growth--it provides students with a foundation for understanding the nature and occurrence of minerals. FEATURES Describes in detail physical, optical, and X-ray powder diffraction techniques of mineral study Outlines common chemical analytical methods Provides thorough descriptions of more than 100 common minerals, emphasizing the geologic contexts within which they occur Includes tables and diagrams that help students identify minerals using both physical and optical properties Incorporates numerous line drawings, photographs, and photomicrographs that elucidate complex concepts Introduction to Mineralogy can be packaged with Daniel Schulze's An Atlas of Minerals in Thin Section for use in your course for a nominal additional fee.

## Book Information

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## Customer Reviews

"Introduction to Mineralogy, Third Edition, combines incredibly helpful optical data on minerals with the classic information of a mineralogy textbook. Nesse has done a masterful job creating what I think is hands down the best reference for optical characteristics. I view this book as a text for my students and as a future reference for them in their work as geologists."--Dori Farthing, State University of New York at Geneseo "The major concepts are covered well and the additional details provide an extended challenge for those students who are particularly interested or have the right

background to truly grasp the more complex concepts. This is really one of the best textbooks I have used for any of the courses I have taught."--Rachel L. Walters, University of Florida

William D. Nesse is Professor Emeritus of Geology at the Department of Earth Sciences at the University of Northern Colorado.

A good text for reference purposes. pros: -thick pages make it durable, a plus for a textbook that is likely to become a reference book-lots of info on common minerals for reference-essential mineralogy knowledge is in there...-...the info in the book is on the internet but tends to be very scattered, not much mineralogy on wikipedia unlike biology, chemistry, common core classes, etc. search a few topics in this book and all you get is scholarly research pdf papers.. and you probably won't understand those or find them very useful.-it makes you feel smart to read it and actually understand it... although that can be time-consuming cons: -no color photos, although not really necessary, but the nice cover photo is misleading-NOT an easy reading textbook--info is DENSE and requires multiple readings and supplemental sources to really understand it...not many good supplemental sources out there-there are some essential and difficult concepts that the book just glances over in a paragraph or two, there should be a student guide to flesh out the info, although it would probably need to be many times thicker than the textbook itself...-mineralogy is probably the hardest class on the path to a BS in geology or related majors once you get through chem, calc, and physics.

I am currently in a Mineralogy class and this is the required textbook. So far, it has been a fantastic resource. At first I was very disappointed at its scarcity of pictures (I'm a visual learner) and entirely black and white pages, but I am grateful that the book didn't cost \$250, as it most likely would have if the book had been illustrated and printed in color. I am a third of the way through the class and we have basically read most of the book already. It is easy to read, conversational at times. The parts explaining chemistry are easy to understand, especially if you have already taken Gen Chem, which was a pre-req for my class. The mineral indices in the back are really helpful for looking up identification methods (hand sample, properties, optics) and quick references to the cleavage, crystal classifications, etc for common minerals. Honestly, I don't have any complaints about this book. Considering there is a wealth of mineral information available on websites such as [...] or [...], this book has just the right amount of information to learn your stuff without being overwhelmed by the endless amount of learning available in the field of mineralogy. Also, things people don't usually

talk about in reviews: this book is about an inch thick, sturdily bound and printed on high stock paper. It will hold up to several semesters in the geology department and it's not so big that you dread taking it to class with you. It's worth buying to keep, new or used, if you're a geology major or a mineralogy enthusiast.

great book, A LOT of detail! This was a gift and the person was excited to receive it.

THIS BOOK IS AWESOME! It its easy to understand, I read some chapters over. I am not a big reader but I needed to pass mineralogy. It helped me more than the newer book and at a FRACTION of the cost!!! BUY THIS BOOK. Information is almost identical. Just different page numbers but you will be able to find where you were at very very easily. The color index in the back of mine was in tact and was actually way better than the one the newer books provided. Just a thought. I loved it. It is the best book I bought all throughout my Geology Major!

tough course great book though.

The text is a bit dry and a considerable portion of it is just an encyclopedia of minerals. Certainly there's value to that, but the result is that the actual 'introduction to mineralogy' is crammed into as small a space as possible in somewhat dense technical language. I used it a lot in my course, but had to supplement it with online resources for many topics. Still, I'm keeping it as a reference.

The way in which this book is written is intuitive and fluid. Explanations are aided greatly by relevant figures. The miller indices are explained quite easily and down to earth, so is the basics for crystal structure and formation. If you are an instructor looking for a mineralogy text, I highly suggest this one. The information is the same as from other texts, however it is presented in a manner that is easy to read, understand and reference.

As a collection manager for a major public U. S. mineral collection I have an extensive mineralogy reference library of my own. Of all the books that I own I keep this volume on my desk for constant reference. This book is not meant for beginning mineral collectors and it assumes a working knowledge of intro chemistry and physics, however it has been of great assistance in answering public inquiries dealing with mineralogy. A super reference, well written and with good illustrations. If you need a colorful text this isn't it, but the facts are there, clearly stated. I HIGHLY RECOMMEND

this text to the motivated amateur and beginning geology student building a reference library.

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