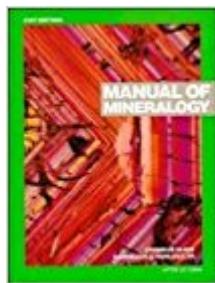


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# Manual Of Mineralogy (after James D. Dana)



## **Synopsis**

Features new chapters on crystal chemistry and mineral stability diagrams, more logical treatments of morphology and internal crystal structure along with extensively revised chapters on mineral chemistry and physical properties. Includes outstanding illustrations, hand specimen photographs and transmission electron microscope structure projects.

## **Book Information**

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## **Customer Reviews**

Features new chapters on crystal chemistry and mineral stability diagrams, more logical treatments of morphology and internal crystal structure along with extensively revised chapters on mineral chemistry and physical properties. Includes outstanding illustrations, hand specimen photographs and transmission electron microscope structure projects.

A must have for anyone interested in mineralogy or geology!

About average for a college-level text

Excellent condition. Great buy. Thanks!

I like it

This would make a good college text book on Minerals. The next level for the serious rockhound.

Very nice product in perfect conditions for a used book and just arrived in time! This book is a must for any geologist who works in any area. Great for mineral recognition!

Don't buy the new, expensive version. Mineralogy hasn't changed much in 60 years. This is a clear and insightful book that makes a great reference.

This text is often used in college mineralogy courses. As one having considerable experience with minerals before taking the college course, I found the 21st edition a distinct improvement over the two previous editions. The strengths of this edition are in its treatment of crystallography and of crystal chemistry (however, Bloss' Crystallography and Crystal Chemistry covers this well), mineral chemistry (compositional variation in minerals, calculation of analyses, etc.), x-ray crystallography, mineral stability diagrams, good line crystal diagrams in its systematic section, and a usefully organized index. Although this reviewer has often disliked determinative tables as a waste of space (checking entries takes time but is educational), those in this edition have been found useful to students. A few weaknesses are the removal of interfacial angles from this edition (even cleavage angles may aid in identification), the absence (except for hydrochloric acid upon a few carbonates) of most simple chemical tests upon samples, using cheap hardware store acids and reagents, and the absence of any passing reference to the subject of blowpipe analysis, a historical adjunct that served mineralogy as much as the Bunsen burner served chemistry. Although that is a separate subject not possibly treated adequately within a one-semester course, and not generally treated in college courses today, it is a historic part of our mineralogical heritage, and often can serve a useful purpose in the aid of identification of commoner species. A few notes as to its place in history, and a few text references for further study, would have been appreciated. However, the Field Guide to Rocks and Minerals, by Frederick H. Pough (Peterson field guide series) may serve as a useful complement to this text. This could use rewording in a few places, as some sentence structure (indeed some formula structure) may be found ambiguous, an example being formulas on page 75 to find  $a$  and  $c$ , which are not clear as to whether parts of these, as in the last paragraph on said page, are in the numerator or in the denominator... Another example is the use of the stereographic net, which I had quite a time figuring out from the text, and when I did I rewrote directions and pinned them up on the bulletin board of the geology dept. Kudos, however, to whomever put the stereonet inside the back cover of the text with the suggestion to photocopy it for use. Also the list, two pages past the last numbered page, of locations of some key tables and illustrations. Clarity of

language is important to a student desiring to learn more about some aspect of the subject. It is difficult to rate books upon a number system, as objective reasons and examples are more informative. The rating, which seems to be required, is an average based upon my own personal opinion: 6.7. [DMM]

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