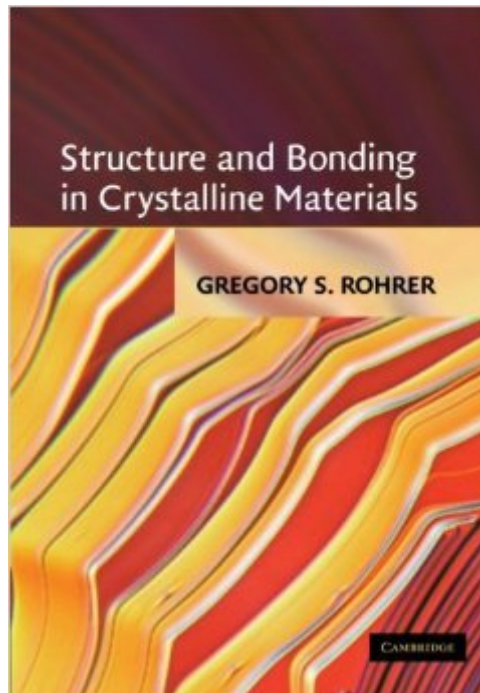


The book was found

# Structure And Bonding In Crystalline Materials



## Synopsis

How can elements be combined to produce a solid with specified properties? This book acquaints readers with the established principles of crystallography and cohesive forces needed to address the fundamental relationship among composition, structure and bonding. Starting with an introduction to periodic trends, the book discusses crystal structures and the various primary and secondary bonding types, and finishes by describing a number of models for predicting phase stability and structure. Its large number of worked examples, exercises, and detailed descriptions of numerous crystal structures make this an outstanding advanced undergraduate or graduate-level textbook for students of materials science.

## Book Information

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Average Customer Review: 3.3 out of 5 stars [See all reviews](#) (6 customer reviews)

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## Customer Reviews

Great source of information for bonding. I used it in a graduate introductory materials science class and found the chapters on bonding to be very helpful in understanding the concepts. Did not look too much into crystal structures.

Surprisingly useful and good book! I have low expectations of books that look like this, and of college 2nd year textbooks (After you stop using the pretty ones that were also used in high school AP classes). This book is not in color, but I love the organization and the simple yet detailed explanations. It has an index which is awesome. I love reading this textbook. (compared to the x-ray diffraction by Cullity textbook that is also required for my Materials Science class on Atomic Structure). Everything is written in an understandable way. I suck at chemistry and haven't taken it

for 2years but this book was great for me.

An alright book if you've already got a good background in crystallography. But is rather dry and lacks useful diagrams when compared to other options.

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