



Structure and Bonding in Crystalline Materials

By Gregory S. Rohrer

Download now

Read Online ➔

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer

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.

↓ [Download Structure and Bonding in Crystalline Materials ...pdf](#)

📄 [Read Online Structure and Bonding in Crystalline Materials ...pdf](#)

Structure and Bonding in Crystalline Materials

By Gregory S. Rohrer

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer

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.

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer Bibliography

- Sales Rank: #1289360 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2001-07-30
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x 1.10" w x 6.85" l, 1.96 pounds
- Binding: Paperback
- 552 pages

 [Download Structure and Bonding in Crystalline Materials ...pdf](#)

 [Read Online Structure and Bonding in Crystalline Materials ...pdf](#)

Download and Read Free Online Structure and Bonding in Crystalline Materials By Gregory S. Rohrer

Editorial Review

Review

'... a remarkably pointed example of how times have changed. The real strengths of the book are its depth of coverage, bridging advanced undergraduate and postgraduate work, and its material-based approach.' Joan Halfpenny, Chemistry of Britain

'... an approach to the subject of structure and bonding in crystalline solids ... can be recommended for everyone concerned with crystalline solids in the broadest sense, as a useful compendium and handbook of long-lasting value.' Peter Kroll, Angewandte Chemie

About the Author

Gregory S. Rohrer is a Professor of Materials Science and Engineering at Carnegie Mellon University. Prof. Rohrer was born in Lancaster, PA, in 1962. He received his bachelor's degree in Physics from Franklin and Marshall College in 1984 and his Ph.D. in Materials Science and Engineering from the University of Pennsylvania in 1989. At CMU, Prof. Rohrer is the director of the NSF sponsored Materials Research Science and Engineering Center. His research is directed toward understanding how the properties of surfaces and internal interfaces are influenced by their geometric and crystallographic structure, their stoichiometry, and their defect structure. Prof. Rohrer is an associate Editor for the Journal of the American Ceramic Society and his research earned a National Science Foundation Young Investigator Award in 1994.

Users Review

From reader reviews:

Anthony Youngblood:

Throughout other case, little men and women like to read book Structure and Bonding in Crystalline Materials. You can choose the best book if you appreciate reading a book. Provided that we know about how is important a book Structure and Bonding in Crystalline Materials. You can add know-how and of course you can around the world by the book. Absolutely right, since from book you can know everything! From your country till foreign or abroad you may be known. About simple thing until wonderful thing you could know that. In this era, we could open a book or searching by internet unit. It is called e-book. You should use it when you feel bored to go to the library. Let's learn.

David Bostick:

This book untitled Structure and Bonding in Crystalline Materials to be one of several books that will best seller in this year, here is because when you read this book you can get a lot of benefit in it. You will easily to buy this particular book in the book retail outlet or you can order it via online. The publisher on this book sells the e-book too. It makes you quicker to read this book, since you can read this book in your Smart phone. So there is no reason for you to past this book from your list.

Holly Hughes:

In this particular era which is the greater individual or who has ability to do something more are more valuable than other. Do you want to become certainly one of it? It is just simple method to have that. What you must do is just spending your time very little but quite enough to possess a look at some books. One of the books in the top checklist in your reading list is Structure and Bonding in Crystalline Materials. This book which is qualified as The Hungry Hills can get you closer in growing to be precious person. By looking up and review this guide you can get many advantages.

Clara Duke:

A lot of publication has printed but it differs from the others. You can get it by online on social media. You can choose the most beneficial book for you, science, witty, novel, or whatever by simply searching from it. It is known as of book Structure and Bonding in Crystalline Materials. Contain your knowledge by it. Without making the printed book, it might add your knowledge and make a person happier to read. It is most critical that, you must aware about book. It can bring you from one spot to other place.

Download and Read Online Structure and Bonding in Crystalline Materials By Gregory S. Rohrer #F8T5VP12CQ6

Read Structure and Bonding in Crystalline Materials By Gregory S. Rohrer for online ebook

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Structure and Bonding in Crystalline Materials By Gregory S. Rohrer books to read online.

Online Structure and Bonding in Crystalline Materials By Gregory S. Rohrer ebook PDF download

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer Doc

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer Mobipocket

Structure and Bonding in Crystalline Materials By Gregory S. Rohrer EPub

F8T5VP12CQ6: Structure and Bonding in Crystalline Materials By Gregory S. Rohrer