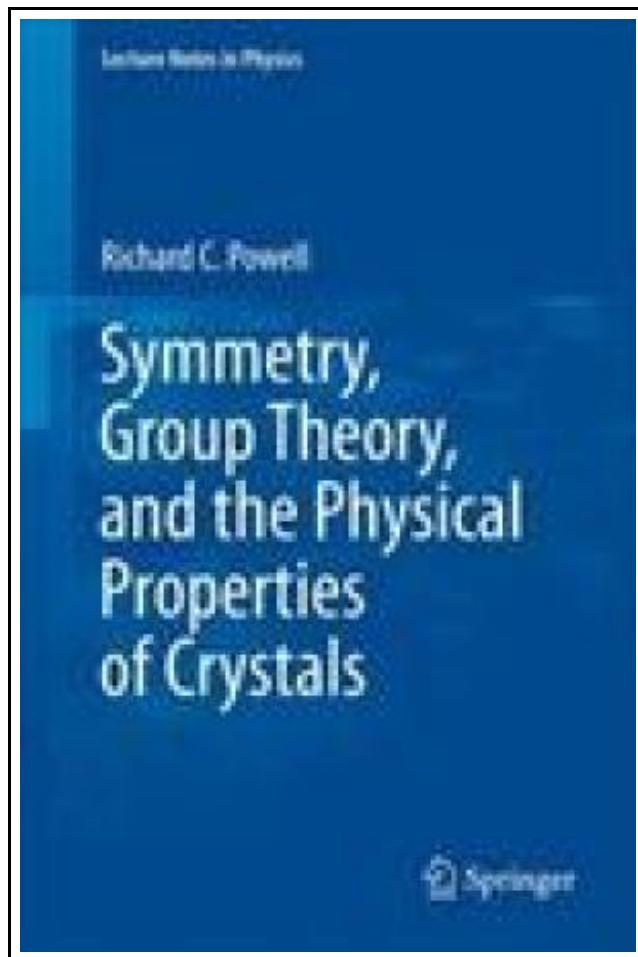


Symmetry, Group Theory, and the Physical Properties of Crystals



Filesize: 3.04 MB

Reviews

Definitely one of the best ebook We have possibly go through. It usually does not charge a lot of. I am just pleased to inform you that this is actually the greatest ebook i have got study in my own lifestyle and may be he greatest publication for actually.
(Ms. Patsy D'Amore III)

SYMMETRY, GROUP THEORY, AND THE PHYSICAL PROPERTIES OF CRYSTALS

DOWNLOAD



To download **Symmetry, Group Theory, and the Physical Properties of Crystals** eBook, make sure you refer to the web link under and download the ebook or have accessibility to other information which are relevant to SYMMETRY, GROUP THEORY, AND THE PHYSICAL PROPERTIES OF CRYSTALS book.

Springer Dez 2010, 2010. Taschenbuch. Book Condition: Neu. 23.5x15.5x cm. This item is printed on demand - Print on Demand Neuware - This book demonstrates the importance of symmetry in determining the properties of solids and the power of using group theory and tensor algebra to elucidate these properties. It provides the fundamentals necessary for the reader to understand how to utilize these techniques in many different applications without becoming lost in a heavy formal treatment of the subject matter. The book begins by discussing the concepts of symmetry relevant to crystal structures. This is followed by a summary of the basics of group theory and how it applies to quantum mechanics. Next is a discussion of the description of the macroscopic properties of crystals by tensors and how symmetry determines the form of these tensors. The basic concepts covered in these early chapters are then applied to a series of different examples including crystal field theory treatment of point defects in solids, molecular orbitals, two-photon processes, the optical properties of solids, the nonlinear optical properties of solids, lattice vibrations, the Jahn-Teller effect, and the effects of translational symmetry on electronic energy bands in solids. Emphasis is placed on showing how group theory and tensor algebra can provide important information about the properties of a system without resorting to first principal quantum mechanical calculations. The book also features a comprehensive set of relevant tables, including crystal symmetries, point group character tables, matter tensors of different rank, and other tensor properties. Key Features: -Serves as a textbook or reference book for solid-state physics, solid-state chemistry, and materials science and engineering -Shows how the physical properties of solids are determined by their symmetry -Demonstrates the applications of group theory -Utilizes the concept of matter tensors -Includes an extensive set of reference tables...



[Read Symmetry, Group Theory, and the Physical Properties of Crystals Online](#)



[Download PDF Symmetry, Group Theory, and the Physical Properties of Crystals](#)

See Also



[PDF] The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)

Click the link under to get "The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)" PDF file.

[Read PDF »](#)



[PDF] Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625) (Paperback)

Click the link under to get "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1624-1625) (Paperback)" PDF file.

[Read PDF »](#)



[PDF] Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)

Click the link under to get "Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. (1625) (Paperback)" PDF file.

[Read PDF »](#)



[PDF] Tax Practice (2nd edition five-year higher vocational education and the accounting profession teaching the book)(Chinese Edition)

Click the link under to get "Tax Practice (2nd edition five-year higher vocational education and the accounting profession teaching the book)(Chinese Edition)" PDF file.

[Read PDF »](#)



[PDF] Children s and Young Adult Literature Database -- Access Card

Click the link under to get "Children s and Young Adult Literature Database -- Access Card" PDF file.

[Read PDF »](#)



[PDF] Access2003 Chinese version of the basic tutorial (secondary vocational schools teaching computer series)

Click the link under to get "Access2003 Chinese version of the basic tutorial (secondary vocational schools teaching computer series)" PDF file.

[Read PDF »](#)