

Solid State Physics

Structure and Properties of Materials

M A Wahab

Second Edition



Alpha
Science

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Ian Pickup



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Solid State Physics Mohammad Abdul Wahab,2005 Solid State Physics a comprehensive study for the undergraduate and postgraduate students of pure and applied sciences and engineering disciplines is divided into eighteen chapters The First seven chapters deal with structure related aspects such as lattice and crystal structures bonding packing and diffusion of atoms followed by imperfections and lattice vibrations Chapter eight deals mainly with experimental methods of determining structures of given materials While the next nine chapters cover various physical properties of crystalline solids the last chapter deals with the anisotropic properties of materials This chapter has been added for benefit of readers to understand the crystal properties anisotropic in terms of some simple mathematical formulations such as tensor and matrix New to the Second Edition Chapter on Anisotropic Properties of Materials **Solid State Physics** David Schmool,2016-08-09 This broad introduction to some of the principal areas of the physical phenomena in solid materials includes the electronic mechanical magnetic and optical properties of all materials These subjects are treated in depth and provide the reader with the tools necessary for an understanding of the varied phenomena of materials Particular emphasis is given to the reaction of materials to specific stimuli such as the application of electric and magnetic fields The final chapter of the book provides a broad introduction to nanotechnologies and uses some of the main tools of solid state physics to explain the behavior of nanomaterials and why they are of importance for future technologies Solid State Physics R. J. Singh,2012 Solid state physics forms an important part of the undergraduate syllabi of physics in most of the universities The existing competing books by Indian authors have too complex technical language which makes them abstractive to Indian students who use English as their secondary language Solid State Physics is written as per the core module syllabus of the major universities and targets undergraduate B Sc students The book uses lecture style in explaining the concepts which would facilitate easy understanding of the concepts The topics have been dealt with precision and provide adequate knowledge of the subject Numerical Problems in Solid State Physics M. A. Wahab,2011 This is a companion volume to the author's first book on Solid State Physics The book consists of about 600 solved examples in 14 chapters on different topics of solid state physics and condensed matter physics **Solid State Physics** Mohd Abdul Wahab,2005 **Physics Briefs** ,1985-07 Solid State Physics Structure and Properties of Materials M. A. Wahab,2005 **Government Reports Announcements & Index** ,1991 *American Men of Science* James McKeen Cattell,Jacques Cattell,1961 *Science Abstracts* ,1965 **International Books in Print** ,1991 *Dissertation Abstracts International* ,1986 American Men and Women of Science ,1979 **Solid State Physics** Dr. Om Prakash Pahuja,2005-12 *Solid State Physics* Gerald Burns,2013-11-06 Solid State Physics International Edition covers the fundamentals and the advanced concepts of solid state physics The book is comprised of 18 chapters that tackle a specific aspect of solid state physics Chapters 1 to 3 discuss the symmetry aspects of crystalline solids while Chapter 4 covers the application of X rays in solid state science Chapter 5 deals

with the anisotropic character of crystals Chapters 6 to 8 talk about the five common types of bonding in solids while Chapters 9 and 10 cover the free electron theory and band theory Chapters 11 and 12 discuss the effects of movement of atoms and Chapter 13 talks about the optical properties of crystals Chapters 14 to 18 cover the other relevant areas of solid state physics such as ferroelectricity magnetism surface science and artificial structure The book will be of great use both to novice and experienced researchers in the field of solid state physics

Elementary Solid State Physics M. A. Omar, 1985
American Men of Science, 1970

Introduction to Solid State Physics Charles Kittel, 1986 This the most widely used introduction to solid state physics in the world now published in 15 languages is designed for upper level physics chemistry and electrical engineering students

Solid State Physics John J. Quinn, Kyung-Soo Yi, 2009-09-18 Intended for a two semester advanced undergraduate or graduate course in Solid State Physics this treatment offers modern coverage of the theory and related experiments including the group theoretical approach to band structures Moessbauer recoil free fraction semi classical electron theory magnetoconductivity electron self energy and Landau theory of Fermi liquid and both quantum and fractional quantum Hall effects Integrated throughout are developments from the newest semiconductor devices e g space charge layers quantum wells and superlattices The first half includes all material usually covered in the introductory course but in greater depth than most introductory textbooks The second half includes most of the important developments in solid state researches of the past half century addressing e g optical and electronic properties such as collective bulk and surface modes and spectral function of a quasiparticle which is a basic concept for understanding LEED intensities X ray fine structure spectroscopy and photoemission So both the fundamental principles and most recent advances in solid state physics are explained in a class tested tutorial style with end of chapter exercises for review and reinforcement of key concepts and calculations

Elements of Solid State Physics H. Y. Fan, 1987 This introduction to solid state physics covers the basic problems of condensed matter amorphous or glassy solids and liquid crystals Ion lattice symmetry and its direct consequences are treated in the first chapter Following the adiabatic approximation the treatment is divided into two parts the system of ions and the system of electrons Interactions of the two systems are considered and the various properties of the solid beginning with some general considerations on structure and phase transitions are also dealt with

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