

Solid State Physics M A Wahab

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Solid-state physics is the study of rigid matter, or solids, through methods such as quantum mechanics, crystallography, electromagnetism, and metallurgy. It is the largest branch of condensed matter physics. Solid-state physics studies how the large-scale properties of solid materials result from their atomic-scale properties. Thus, solid-state physics forms a theoretical basis of materials science. It also has direct applications, for example in the technology of transistors and semiconductors

Solid-state physics - Wikipedia

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M.A. Wahab is the author of Solid State Physics (3.83 avg rating, 275 ratings, 28 reviews, published 2005), Numerical Problems in Solid State Physics (3....

M.A. Wahab (Author of Solid State Physics)

Meaning of Solid State Physics. Solid-state physics refers to that branch of physics that deals with the study of solid matter that is rigid. It is done through an assortment of techniques including quantum mechanics, electromagnetism, metallurgy, and crystallography and structures the theoretical foundation of materials science.

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Description This course "Solid State Physics" primarily focus the concepts of BSc Physics. It will help to create the actual physical concepts by experiments and simulations along with the video tutorials. These video tutorials will help graduate students to know more about the fundamentals of the solid-state physics.

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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

Used widely in courses and frequently sought as a reference, this 2-volume work features comprehensive coverage of its subject. Volume 1 examines the fundamental theory of equilibrium properties of perfect crystalline solids. Volume 2 addresses non-equilibrium properties, defects, and disordered systems. 1973 edition.

The objective of Solid State Physics is to introduce college seniors and first-year graduate students in physics, electrical engineering, materials science, chemistry, and related areas to this diverse and fascinating field. I have attempted to present this complex subject matter in a coherent, integrated manner, emphasizing fundamental scientific ideas to give the student a strong understanding and "feel" for the physics and the orders of magnitude involved. The subject is varied, covering many important, sophisticated, and practical areas, which, at first, may appear unrelated but which are actually built on the same foundation: the bonding between atoms, the periodic translational symmetry, and the resulting electron energy levels. The text is comprehensive enough so that the basics of broad areas of present research are covered, yet flexible enough so that courses of varying lengths can be satisfied. the exercises at the end of each chapter serve to reinforce and extend the text.

Solid state physics, the study and prediction of the fundamental physical properties of materials, forms the backbone of modern materials science and has many technological applications. The unique feature of this text is the MATLAB®-based computational approach with several numerical techniques and simulation methods included. This is highly effective in addressing the need for visualization and a direct hands-on approach in learning the theoretical concepts of solid state physics. The code is freely available to all textbook users. Additional Features: Uses the pedagogical tools of computational physics that have become important in enhancing physics teaching of advanced subjects such as solid state physics Adds visualization and simulation to the subject in a way that enables students to participate actively in a hand-on approach Covers the basic concepts of solid state physics and provides students with a deeper understanding of the subject matter Provides unique example exercises throughout the text Obtains mathematical analytical solutions Carries out illustrations of important formulae results using programming scripts that students can run on their own and reproduce graphs and/or simulations Helps students visualize solid state processes and apply certain numerical techniques using MATLAB®, making the process of learning solid state physics much more effective Reinforces the examples discussed within the chapters through the use of end-of-chapter exercises Includes simple analytical and numerical examples to more challenging ones, as well as computational problems with the opportunity to run codes, create new ones, or modify existing ones to solve problems or reproduce certain results

Numerical Problems in Solid State Physics presents a collection of solved examples, unsolved review problems and multiple type of questions on different topics of Solid State Physics/Condensed Matter. The author felt the need of such a book in view of the fact of growing number of competitive examinations at various levels conducted by universities, UGC/CSIR, UPSC, etc. where the questions are generally of numerical in nature. This book contains twelve chapters on different topics of Solid State Physics/ Condensed Matter and dealt with more than seven hundred solved examples and unsolved problems. This book will be extremely helpful to the faculty members associated with the field, the students of B.Sc (H), M.Sc and B. Tech in related subjects and the students appearing in various competitive examinations.

The aim of this book is a discussion, at the introductory level, of some applications of solid state physics. The book evolved from notes written for a course offered three times in the Department of Physics of the University of California at Berkeley. The objects of the course were (a) to broaden the knowledge of graduate students in physics, especially those in solid state physics; (b) to provide a useful course covering the physics of a variety of solid state devices for students in several areas of physics; (c) to indicate some areas of research in applied solid state physics. To achieve these ends, this book is designed to be a survey of the physics of a number of solid state devices. As the italics indicate, the key words in this description are physics and survey. Physics is a key word because the book stresses the basic qualitative physics of the applications, in enough depth to explain

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the essentials of how a device works but not deeply enough to allow the reader to design one. The question emphasized is how the solid state physics of the application results in the basic useful property of the device. An example is how the physics of the tunnel diode results in a negative dynamic resistance. Specific circuit applications of devices are mentioned, but not emphasized, since expositions are available in the electrical engineering textbooks given as references.

Introduces students to the key research topics within modern solid state physics with the minimum of mathematics.

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