ELECTRONS IN SOLIDS

An Introductory Survey
Third Edition

Richard H. Bube

Electrons In Solids An Introductory Survey

Angus Rockett

Electrons In Solids An Introductory Survey:

Electrons in Solids Richard Bube, 2012-12-02 Electronics in Solids An Introductory Survey presents a modern picture of electrons in solids using wave properties as the integrating theme of the conceptual background It looks at lattice waves light waves and electron waves along with their particle like correlatives phonons photons and electrons. The first chapters of the book provide a background on wave equations boundary conditions and general wave properties for the student so that the transition to the nonclassical world of quantum mechanics can be more easily assimilated. The last chapters examine optical properties electrical properties junctions and magnetic properties of solids This book is written for students of quantum mechanics and those examining the electrical optical and magnetic properties of solids without relying too much on advanced knowledge on atomic or solid state physics Electrons in Solids Richard H. Bube, 1992-09-03 This Third Edition of ELECTRONS IN SOLIDS AN INTRODUCTORY SURVEY is the result of a thorough re examination of the entire text incorporating suggestions and corrections by students and professors who have used the text Explanations and descriptions have been expanded and additional information has been added on high Tc superconductors diamond films buckminsterfullerenes and thin magnetic materials Adopted by many colleges and universities this text has proven to be a solid introduction to the electrical optical and magnetic properties of materials Contains comprehensive coverage of electronic properties in metals semiconductors and insulators at a fundamental level Stresses the use of wave properties as an integrating theme for the discussion of phonons photons and electrons Includes a complete set of illustrative problems along with exercises and answers Features a careful indication of both Gaussian and SI unit systems Electrons in Solids 2e Richard Bube, 2012-12-02 Electrons in Solids Second Edition An Introductory Survey introduces the reader to electrons in solids and covers topics ranging from particles and waves to the free electron model energy bands and junctions Optical and electrical properties are also discussed along with magnetic properties. The wavelike properties of all of matter are chosen as an integrating theme into which to weave such themes as crystal lattice vibrations with their effect on electron mobility and electrical and thermal conductivity electromagnetic waves with their effect on optical reflection and absorption and electronic transport in solids with its dependence on the wavelike properties of electrons This book is comprised of 11 chapters and begins with an overview of particles and waves together with classical views of electrons light and energy The general properties of waves are then discussed with particular reference to traveling waves standing waves transverse waves and longitudinal waves Lattice waves light waves and matter waves are also considered The reader is also introduced to wave equations boundary conditions and general wave properties The remaining chapters are devoted to optical electrical and magnetic properties as well as junctions including metal metal junctions metal semiconductor junctions and metal semiconductor junctions This monograph is intended for undergraduates and first year graduate students with a background primarily in materials science metallurgy or one of the other engineering disciplines **Introduction to the Electronic**

Properties of Materials David C. Jiles, 2017-12-21 Electronic materials provide the basis for many high tech industries that have changed rapidly in recent years In this fully revised and updated second edition the author discusses the range of available materials and their technological applications Introduction to the Electronic Properties of Materials 2nd Edition presents the principles of the behavior of electrons in materials and develops a basic understanding with minimal technical detail Broadly based it touches on all of the key issues in the field and offers a multidisciplinary approach spanning physics electrical engineering and materials science It provides an understanding of the behavior of electrons within materials how electrons determine the magnetic thermal optical and electrical properties of materials and how electronic properties are controlled for use in technological applications Although some mathematics is essential in this area the mathematics that is used is easy to follow and kept to an appropriate level for the reader An excellent introductory text for undergraduate students this book is a broad introduction to the topic and provides a careful balance of information that will be appropriate for physicists materials scientists and electrical engineers **Semiconductor Materials** B.G. Yacobi, 2006-04-18 The technological progress is closely related to the developments of various materials and tools made of those materials Even the different ages have been defined in relation to the materials used Some of the major attributes of the present day age i e the electronic materials age are such common tools as computers and fiber optic telecommunication systems in which semiconductor materials provide vital components for various mic electronic and optoelectronic devices in applications such as computing memory storage and communication The field of semiconductors encompasses a variety of disciplines This book is not intended to provide a comprehensive description of a wide range of semiconductor properties or of a continually increasing number of the semiconductor device applications Rather the main purpose of this book is to provide an introductory perspective on the basic principles of semiconductor materials and their applications that are described in a relatively concise format in a single volume Thus this book should especially be suitable as an introductory text for a single course on semiconductor materials that may be taken by both undergraduate and graduate engineering students This book should also be useful as a concise reference on semiconductor materials for researchers working in a wide variety of fields in physical and engineering sciences **Introductory Matter Physics** Francesco Simoni, 2018-08-03 This book aims to introduce the reader to basic concepts concerning matter physics describing how fundamental properties of atoms molecules and condensed matter are affected by properties of electrons and by their interaction with electromagnetic waves As an introductory text on basic properties of matter the contents are designed for undergraduate students in electrical engineering It is based on the lectures given by the author for over a decade on Matter Physics and Solid State Physics It focuses on electronic properties to discuss the structure electrical and optical properties of matter and is organized into six chapters The first chapter is a short review of the basic properties of electromagnetic waves giving the basic concepts related to wave propagation to be handled easily to understand the subsequent topics The next chapter on quantum

mechanics helps to understand the quantum properties of matter using the simplest formalizations Chapter 3 introduces the core of the book by using quantum mechanics to describe the electronic properties of the atom Then after atomic bonding molecules and condensed matter are discussed before approaching the structural properties of crystal and soft matter. The following chapters 4 and 5 are then devoted to electrical properties and optical properties and address the main topics related to solid state and semiconductor physics as well as light matter interaction. The final chapter 6 deals with the basic properties of lasers due to the relevance of light sources in everyday life and their widespread use in all branches of engineering Semiconductors and Semimetals ,1990-04-25 Semiconductors and Semimetals **Low-dimensional Semiconductors** John H. Davies, 1998 The composition of modern semiconductor heterostructures can be controlled precisely on the atomic scale to create low dimensional systems These systems have revolutionised semiconductor physics and their impact on technology particularly for semiconductor lasers and ultrafast transistors is widespread and burgeoning This book provides an introduction to the general principles that underlie low dimensional semiconductors As far as possible simple physical explanations are used with reference to examples from actual devices The author shows how beginning with fundamental results from quantum mechanics and solid state physics a formalism can be developed that describes the properties of low dimensional semiconductor systems Among numerous examples two key systems are studied in detail the two dimensional electron gas employed in field effect transistors and the quantum well whose optical properties find application in lasers and other opto electronic devices. The book includes many exercises and will be invaluable to undergraduate and first year graduate physics or electrical engineering students taking courses in low dimensional systems or heterostructure device physics Semiconductor Physics Karl W. Böer, Udo W. Pohl, 2023-02-02 This handbook gives a complete and detailed survey of the field of semiconductor physics It addresses every fundamental principle the most important research topics and results as well as conventional and emerging new areas of application Additionally it provides all essential reference material on crystalline bulk low dimensional and amorphous semiconductors including valuable data on their optical transport and dynamic properties This updated and extended second edition includes essential coverage of rapidly advancing areas in semiconductor physics such as topological insulators quantum optics magnetic nanostructures and spintronic systems Richly illustrated and authored by a duo of internationally acclaimed experts in solar energy and semiconductor physics this handbook delivers in depth treatment of the field reflecting a combined experience spanning several decades as both researchers and educators Offering a unique perspective on many issues Semiconductor Physics is an invaluable reference for physicists materials scientists and engineers throughout academia and industry Heat Transfer Physics Massoud Kaviany, 2014-02-10 This graduate textbook describes atomic level kinetics mechanisms and rates of thermal energy storage transport conduction convection and radiation and transformation various energy conversions by principal energy carriers The approach combines the fundamentals of molecular orbitals potentials statistical

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Controlled colloidal assembly is presented as an experimental model for crystal growth Volume IIB Describes morphological stability theory and phase field model and comparison to experiments of dendritic growth Presents nanocrystal growth in vapor as well as protein crystal growth and biological crystallization Interprets mass production of pharmaceutical crystals to be understood as ordinary crystal growth and explains crystallization of chiral molecules Demonstrates in situ observation of crystal growth in vapor solution and melt on the ground and in space Advanced University Physics Mircea S. Rogalski, Stuart B. Palmer, 2018-10-03 To move from empirical based physics to the theoretical abstractness required for advanced physics requires a paradigmatic shift in logic that can challenge even the brightest mind Grasping the play of phenomena as they are described in introductory compendiums does not necessarily create a foundation that allows for the building of a bridge to the higher levels of theoretical physics In the first edition of Advanced University Physics respected physicists Stuart Palmer and Mircea Rogalski built that bridge and then guided readers across it Serving as a supplement to the standard advanced physics syllabus their work provided a succinct review of course material while encouraging the development of a more cohesive understanding of theoretical physics Now after incorporating suggestions from many readers and colleagues the two authors have revised and updated their original work to produce a second even more poignant edition Succinct cohesive and comprehensive Advanced University Physics Second Edition brings individuals schooled in the rudiments of physics to theoretical fluency In a progression of concise chapters the text clarifies concepts from Newtonian Laws to nuclear dynamics while introducing and building upon the theoretical logic required to operate in the world of contemporary physics Some chapters have been combined to improve relational clarity and new material has been added to cover the evolving concepts that have emerged over the last decade in this highly fluid field The authors have also added a substantial amount of relevant problems and at least one pertinent example for every chapter Those already steeped in physics will continue to find this work to be a useful reference as the book s 47 chapters provide the opportunity to become refreshed and updated on a great number of easily identified topics **Elementary Excitations In Solids David** Pines, 2018-03-05 This text continues to fill the need to communicate the present view of a solid as a system of interacting particles which under suitable circumstances behaves like a collection of nearly independent elementary excitations In addition to introducing basic concepts the author frequently refers to experimental data Usually both the basic theory and the applications discussed deal with the behavior of simple metals rather than the complicated metals such as the transition metals and the rare earths Problems have been included for most of the chapters Electromagnetics in Magnetic Resonance Imaging Christopher M. Collins, 2016-03-01 In the past few decades Magnetic Resonance Imaging MRI has become an indispensable tool in modern medicine with MRI systems now available at every major hospital in the developed world But for all its utility and prevalence it is much less commonly understood and less readily explained than other common medical imaging techniques Unlike optical ultrasonic X ray including CT and nuclear medicine based imaging MRI

does not rely primarily on simple transmission and or reflection of energy and the highest achievable resolution in MRI is orders of magnitude smaller that the smallest wavelength involved In this book MRI will be explained with emphasis on the magnetic fields required their generation their concomitant electric fields the various interactions of all these fields with the subject being imaged and the implications of these interactions to image quality and patient safety Classical electromagnetics will be used to describe aspects from the fundamental phenomenon of nuclear precession through signal detection and MRI safety Simple explanations and Illustrations combined with pertinent equations are designed to help the reader rapidly gain a fundamental understanding and an appreciation of this technology as it is used today as well as ongoing advances that will increase its value in the future Numerous references are included to facilitate further study with an emphasis on areas most directly related to electromagnetics Fundamentals of Nanoelectronics George W. Hanson, 2008 For undergraduate courses in nanoelectronics This is the first actual nanoelectronics textbook for undergraduate engineering and applied sciences students It provides an introduction to nanoelectronics as well as a self contained overview of the necessary physical concepts taking a fairly gentle but serious approach to a field that will be extremely important in the near future New Developments in Ferromagnetism Research V. N. Murray, 2005 Ferromagnetism is a form of magnetism that can be acquired in an external magnetic field and usually retained in its absence so that ferromagnetic materials are used to make permanent magnets A ferromagnetic material may therefore be said to have a high magnetic permeability and susceptibility which depends upon temperature Examples are iron cobalt nickel and their alloys Ultimately ferromagnetism is caused by spinning electrons in the atoms of the material which act as tiny weak magnets They align parallel to each other within small regions of the material to form domains or areas of stronger magnetism In an unmagnetised material the domains are aligned at random so there is no overall magnetic effect If a magnetic field is applied to that material the domains align to point in the same direction producing a strong overall magnetic effect Permanent magnetism arises if the domains remain aligned after the external field is removed Ferromagnetic materials exhibit hysteresis In 2004 it was discovered that a certain allotrope of carbon nanofoam exhibited ferromagnetism The effect dissipates after a few hours at room temperature but lasts longer at cold temperatures. The material is also a semiconductor It is thought that other similarly formed materials of boron and nitrogen may also be ferromagnetic This new book rings together leading research from throughout the world

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