

ELECTRONS IN SOLIDS

An Introductory Survey
Third Edition

Richard H. Bube

Electrons In Solids An Introductory Survey

David Pines



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, 1992-12-04 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 T_c 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 Electronics 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 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 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 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

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

The Physics of 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

The Materials Science of Semiconductors Angus Rockett, 2007-11-20 This book describes semiconductors from a materials science perspective rather than from condensed matter physics or electrical engineering viewpoints It includes discussion of current approaches to organic materials for electronic devices It further describes the fundamental aspects of thin film nucleation and growth and the most

common physical and chemical vapor deposition techniques Examples of the application of the concepts in each chapter to specific problems or situations are included along with recommended readings and homework problems **TMS 2013 142nd Annual Meeting and Exhibition** The Minerals, Metals & Materials Society (TMS),2013-02-22 Presenting papers from the 2013 annual meeting of The Minerals Metals Materials Society TMS this volume covers developments in all aspects of high temperature electrochemistry from the fundamental to the empirical and from the theoretical to the applied

Impedance Spectroscopy Evgenij Barsoukov,J. Ross Macdonald,2005-03-18 A skillful balance of theoretical considerations and practical know how Backed by a team of expert contributors the Second Edition of this highly acclaimed publication brings a solid understanding of impedance spectroscopy to students researchers and engineers in physical chemistry electrochemistry and physics Starting with general principles the book moves on to explain in detail practical applications for the characterization of materials in electrochemistry semiconductors solid electrolytes corrosion solid state devices and electrochemical power sources The book covers all of the topics needed to help readers identify whether impedance spectroscopy may be an appropriate method for their particular research problem The book helps readers quickly grasp how to apply their new knowledge of impedance spectroscopy methods to their own research problems through the use of unique features such as Step by step instructions for setting up experiments and then analyzing the results Theoretical considerations for dealing with modeling equivalent circuits and equations in the complex domain Best measurement methods for particular systems and alerts to potential sources of errors Equations for the most widely used impedance models Figures depicting impedance spectra of typical materials and devices Extensive references to the scientific literature for more information on particular topics and current research This Second Edition incorporates the results of the last two decades of research on the theories and applications of impedance spectroscopy Most notably it includes new chapters on batteries supercapacitors fuel cells and photochromic materials A new chapter on commercially available measurement systems reflects the emergence of impedance spectroscopy as a mainstream research tool With its balanced focus on both theory and practical problem solving Impedance Spectroscopy Theory Experiment and Applications Second Edition serves as an excellent graduate level textbook as well as a hands on guide and reference for researchers and engineers **Solid**

State Physics J. S. Blakemore,1985-12-12 Updated to reflect recent work in the field this book emphasizes crystalline solids going from the crystal lattice to the ideas of reciprocal space and Brillouin zones and develops these ideas for lattice vibrations for the theory of metals and for semiconductors The theme of lattice periodicity and its varied consequences runs through eighty percent of the book Other sections deal with major aspects of solid state physics controlled by other phenomena superconductivity dielectric and magnetic properties and magnetic resonance **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.

Solid-state Physics Source Book Sybil P. Parker, 1988

Handbook of Transparent Conductors David S. Ginley, Hideo Hosono, David C. Paine, 2010-09-11

Transparent conducting materials are key elements in a wide variety of current technologies including flat panel displays, photovoltaics, organic low-e windows, and electrochromics. The need for new and improved materials is pressing because the existing materials do not have the performance levels to meet the ever-increasing demand, and because some of the current materials used may not be viable in the future. In addition, the field of transparent conductors has gone through dramatic changes in the last 5-7 years, with new materials being identified, new applications, and new people in the field. *Handbook of Transparent Conductors* presents transparent conductors in a historical perspective, provides current applications, as well as insights into the future of the devices. It is a comprehensive reference and represents the most current resource on the subject.

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 thermodynamics, computational molecular dynamics, quantum energy states, transport theories, solid-state and fluid-state physics, and quantum optics. The textbook presents a unified theory over fine structure, molecular dynamics, Boltzmann, macroscopic length and time scales of heat transfer kinetics in terms of transition rates and relaxation times, and its modern applications including nano and microscale size effects. Numerous examples, illustrations, and homework problems with answers that enhance learning are included. This new edition includes applications in energy conversion, including chemical

bond nuclear and solar expanded examples of size effects inclusion of junction quantum transport and discussion of graphene and its phonon and electronic conductances New appendix coverage of Phonon Contributions Seebeck Coefficient and Monte Carlo Methods are also included

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

Handbook of Crystal Growth Tatsu Nishinaga, 2014-11-04 Volume I A Handbook of Crystal Growth 2nd Edition Fundamentals Thermodynamics and Kinetics Volume IA addresses the present status of crystal growth science and provides scientific tools for the following volumes Volume II Bulk Crystal Growth and III Thin Film Growth and Epitaxy Volume IA highlights thermodynamics and kinetics After historical introduction of the crystal growth phase equilibria defect thermodynamics stoichiometry and shape of crystal and structure of melt are described Then the most fundamental and basic aspects of crystal growth are presented along with the theories of nucleation and growth kinetics In addition the simulations of crystal growth by Monte Carlo ab initio based approach and colloidal assembly are thoroughly investigated Volume IB Handbook of Crystal Growth 2nd Edition Fundamentals Transport and Stability Volume IB discusses pattern formation a typical problem in crystal growth In addition an introduction to morphological stability is given and the phase field model is explained with comparison to experiments The field of nanocrystal growth is rapidly expanding and here the growth from vapor is presented as an example For the advancement of life science the crystal growth of protein and other biological molecules is indispensable and biological crystallization in nature gives many hints for their crystal growth Another subject discussed is pharmaceutical crystal growth To understand the crystal growth in situ observation is extremely powerful The observation techniques are demonstrated Volume IA Explores phase equilibria defect thermodynamics of Si stoichiometry of oxides and atomistic structure of melt and alloys Explains basic ideas to understand crystal growth equilibrium shape of crystal rough smooth transition of step and surface nucleation and growth mechanisms Focuses on simulation of crystal growth by classical Monte Carlo ab initio based quantum mechanical approach kinetic Monte Carlo and phase field model 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

American Scientist ,1942

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