

*GRADUATE TEXTS IN PHYSICS*

Peter Y. Yu  
Manuel Cardona

# **Fundamentals of Semiconductors**

**Physics and Materials  
Properties**

**Fourth Edition**

 **Springer**

# Fundamentals Of Semiconductors Physics And Materials Properties Graduate Texts In Physics

**Evangelos Almpanis**



## **Fundamentals Of Semiconductors Physics And Materials Properties Graduate Texts In Physics:**

Fundamentals of Semiconductors Peter YU,Manuel Cardona,2010-04-07 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters     *Fundamentals of Semiconductors* Peter YU,Manuel Cardona,2010-05-17 Excellent bridge between general solid state physics textbook and research articles packed with providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The most striking feature of the book is its modern outlook provides a wonderful foundation The most wonderful feature is its efficient style of exposition an excellent book Physics Today Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors I know of no better text I am sure most semiconductor physicists will find this book useful and I recommend it to them Contemporary Physics Offers much new material an extensive appendix about the important and by now well established deep center known as the DX center additional problems and the solutions to over fifty of the problems at the end of the various chapters     Fundamentals of Semiconductors Peter Y. Yu,Manuel Cardona,2010-09-13     *Fundamentals of Semiconductor* Peter YU,Manuel Cardona,2013-11-11 Fundamentals of Semiconductors attempts to fill the gap between a general solid state physics textbook and research articles by providing detailed explanations of the electronic vibrational transport and optical properties of semiconductors The approach is physical and intuitive rather than formal and pedantic Theories are presented to explain experimental results This textbook has been written with both students and researchers in mind Its emphasis is on understanding the physical properties of Si and similar tetrahedrally coordinated semiconductors The explanations are based on physical insights Each chapter is enriched by an extensive collection of tables of material parameters figures and problems Many of these problems lead the student by the hand to arrive at the results     **Basic Semiconductor Physics** Chihiro Hamaguchi,2017-11-27 The new edition of this textbook presents a detailed description of basic semiconductor

physics The text covers a wide range of important phenomena in semiconductors from the simple to the advanced Four different methods of energy band calculations in the full band region are explained local empirical pseudopotential non local pseudopotential KP perturbation and tight binding methods The effective mass approximation and electron motion in a periodic potential Boltzmann transport equation and deformation potentials used for analysis of transport properties are discussed Further the book examines experiments and theoretical analyses of cyclotron resonance in detail Optical and transport properties magneto transport two dimensional electron gas transport HEMT and MOSFET and quantum transport are reviewed while optical transition electron phonon interaction and electron mobility are also addressed Energy and electronic structure of a quantum dot artificial atom are explained with the help of Slater determinants The physics of semiconductor lasers is also described including Einstein coefficients stimulated emission spontaneous emission laser gain double heterostructures blue lasers optical confinement laser modes and strained quantum well lasers offering insights into the physics of various kinds of semiconductor lasers In this third edition energy band calculations in full band zone with spin orbit interaction are presented showing all the matrix elements and equipping the reader to prepare computer programs of energy band calculations The Luttinger Hamiltonian is discussed and used to analyze the valence band structure Numerical calculations of scattering rate relaxation time and mobility are presented for typical semiconductors which are very helpful for understanding of transport Energy band structures and effective masses of nitrides such as GaN InN AlN and their ternary alloys are discussed because they are very important materials for the blue light emission and high power devices with and high frequency Learning and teaching with this textbook is supported by problems and solutions in the end of the chapters The book is written for bachelor and upper undergraduate students of physics and engineering

**Comprehensive Semiconductor Science and Technology**, 2024-11-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Second Edition Three Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and use semiconductor devices Written and edited by a truly international team of experts and newly updated to capture key advancements in the field this work delivers an objective yet cohesive review of the semiconductor world The work is divided into three sections fully updated and expanded from the first edition The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics especially quantum phenomena The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of high purity or doped bulk and epitaxial materials with low defect density and well controlled electrical and optical properties The third section is

devoted to design fabrication and assessment of discrete and integrated semiconductor devices It will cover the entire spectrum of devices we see all around us for telecommunications computing automation displays illumination and consumer electronics Provides a comprehensive global picture of the semiconductor world Written and Edited by an international team of experts Compiles the most important semiconductor knowledge into one comprehensive resource Moves from fundamentals and theory to more advanced knowledge such as applications allowing readers to gain a deeper understanding of the field

**Fundamentals Of Semiconductors: Physics And Materials Properties, 3E** Y. Yu Peter,Manuel Cardona,2007-03-01 **Advances in Imaging and Electron Physics** ,2019-02-16 Advances in Imaging and Electron Physics Volume 209 merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contains contributions from leading authorities on the subject matter Informs and updates on the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy optics image processing mathematical morphology electromagnetic fields electrons and ion emission with a valuable resource Features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing

**Advanced Semiconductors** Shadia Ikhmayies,2025-08-21 This book presents comprehensive reviews on the synthesis characterization properties and applications of advanced semiconducting materials It explores modern inorganic organic and hybrid semiconductors and semiconductor physics through density functional theory Topics include morphology dependent properties in inorganic semiconductors and methods for tuning the electron transport properties of nanotube semiconductors Readers will also find discussions on earth abundant and environmentally friendly chalcogenide nanomaterials for photovoltaics the use of chalcogenides and oxide semiconductors in photoelectrochemical reactions and insights into defect formation during ion implantation in diamond and c BN thin films A thermomechanical response model for photothermal diffusion waves in rotating magnetized semiconductors is also presented This book provides readers with a solid foundation in recent developments and current technologies for producing and characterizing semiconductors as well as theoretical and computational tools

**Emerging Materials** Laxman Raju Thoutam,Shubham Tayal,J. Ajayan,2022-05-13 This book serves as a quick guide on the latest material systems including their synthesis fabrication and characterization techniques It discusses recent developments in different material systems and discusses their novel applications in various branches of science and engineering The book briefs latest computational tools and techniques that are used to discover new material systems The book also briefs applications of new emerging materials in various fields including healthcare sensors opto electronics high power devices and nano electronics This book helps to create a synergy between computational and

experimental research methods to better understand a particular material system      **Interacting Electrons** Richard M. Martin, Lucia Reining, David M. Ceperley, 2016-06-30 This book sets out modern methods of computing properties of materials including essential theoretical background computational approaches practical guidelines and instructive applications

**Optomagnonic Structures: Novel Architectures For Simultaneous Control Of Light And Spin Waves** Evangelos Almpanis, 2021-01-18 Understanding controlling and more importantly enhancing the interaction between light photons and spin waves magnons can be among others a step towards the realization of magnon mediated microwave to optical transducers for quantum computing applications or hybrid solid state spintronic photonic interconnections In this respect the development of novel composite multifunctional micro nanostructures so called optomagnonic which simultaneously control optical and spin waves and enhance their interaction is particularly attractive This book constitutes a collective work comprising seven chapters from leading researchers in the field of optomagnonics and related areas Apart from exciting recent developments it provides the necessary fundamental knowledge in an explanatory manner and therefore it is accessible to non experts It is suitable for PhD students post docs and researchers who are willing to get engaged in optomagnonics while selected parts could also serve as lecture material for advanced courses With increasing demand for miniaturized optomagnonic devices this book will be an important resource to researchers working on optomagnonics magneto optics spintronics as well as on hybrid micro nano devices for information processing      *Advances in Organic Conductors and Superconductors* Martin Dressel, 2018-10-04 This book is a printed edition of the Special Issue *Advances in Organic Conductors and Superconductors* that was published in *Crystals*      *Handbook of Nitride Semiconductors and Devices, Materials Properties, Physics and Growth* Hadis Morkoç, 2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 1 deals with the properties and growth of GaN The deposition methods considered are hydride VPE organometallic CVD MBE and liquid high pressure growth Additionally extended defects and their electrical nature point defects and doping are reviewed      *Optical Properties and Applications of Semiconductors* Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Tariq Altalhi, 2022-07-18 Semiconductors with optical characteristics have found widespread use in evolving semiconductor photovoltaics where optical features are important The industrialization of semiconductors and their allied applications have paved the way for optical measurement techniques to be used in new ways Due to their unique properties semiconductors are key components in the daily employed technologies in healthcare computing communications green energy and a range of other uses This book examines the fundamental optical properties and applications of semiconductors It summarizes the information as well as the optical characteristics and applicability of semiconductors through an in depth review of the literature Accomplished experts in the field share their knowledge and examine new developments FEATURES

Comprehensive coverage of all types of optical applications using semiconductors Explores relevant composite materials and devices for each application Addresses the optical properties of crystalline and amorphous semiconductors Describes new developments in the field and future potential applications Optical Properties and Applications of Semiconductors is a comprehensive reference and an invaluable resource for engineers scientists academics and industry R D teams working in applied physics

**Fundamentals of Solid-state Electronics** Chih-Tang Sah, 1996 This Solution Manual a companion volume of the book Fundamentals of Solid State Electronics provides the solutions to selected problems listed in the book Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state of the art transistor reliability problems which have been taught to advanced undergraduate and graduate students

**Nanosilicon** Anatoly A. Ischenko, Gennady V. Fetisov, Leonid A. Aslalnov, 2014-07-23 Nanosilicon Properties Synthesis Applications Methods of Analysis and Control examines the latest developments on the physics and chemistry of nanosilicon The book focuses on methods for producing nanosilicon its electronic and optical properties research methods to characterize its spectral and structural properties and its possible applications The first part of the book covers the basic properties of semiconductors including causes of the size dependence of the properties structural and electronic properties and physical characteristics of the various forms of silicon It presents theoretical and experimental research results as well as examples of porous silicon and quantum dots The second part discusses the synthesis of nanosilicon modification of the surface of nanoparticles and properties of the resulting particles The authors give special attention to the photoluminescence of silicon nanoparticles The third part describes methods used for studying and controlling the structure and properties of nanocrystalline silicon These methods include standard ones such as electron microscopy spectroscopy and diffraction as well as novel techniques such as femtosecond spectroscopy ultrafast electron nanocrystallography and dynamic transmission electron microscopy The fourth part details some of the practical applications of nanocrystalline silicon including the use of nanoparticles as additives absorbers of UV radiation in sunscreens Incorporating much of the authors own extensive research results this book provides a systematic account of the scientific problems of nanosilicon and its potential practical applications It will help readers understand current and emerging applications and research methods of this unique material

**Basic Semiconductor Physics** Chihiro Hamaguchi, 2023-04-29 This textbook presents a detailed description of basic semiconductor physics covering a wide range of important phenomena in semiconductors from simple to advanced It introduces and explains four different methods of energy band calculations in the full band region and covers fundamental topics such as the effective mass approximation and electron motion in a periodic potential the Boltzmann transport equation and deformation potentials used for the analysis of transport properties The text also examines experimental and theoretical analyses of cyclotron resonance in detail and

reviews essential optical and transport properties while covering optical transitions electron phonon interaction and electron mobility It presents numerical calculations of scattering rate relaxation time and mobility for typical semiconductors with bulk quantum well and HEMT structures including wideband gap materials such as GaN and SiC in addition to IV and III V semiconductors The updated fourth edition includes coverage of new topics such as surface modulated superlattices Wannier Stark effect Bloch oscillation wide band gap semiconductors and photonic crystals Featuring full color diagrams calculated with updated physical parameters as well as chapter end problems and solutions this tried and tested textbook on the basics of semiconductors physics is the cornerstone to any graduate or upper level undergraduate course on the subject

*Technical Books & Monographs* United States. Energy Research and Development Administration, 1974      **Technical Books and Monographs** United States. Energy Research and Development Administration, 1976



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