

GRADUATE TEXTS IN PHYSICS

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Fundamentals of Semiconductors

Physics and Materials
Properties

Fourth Edition

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Fundamentals Of Semiconductors Physics And Materials Properties

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Aditya Saxena, 2025-02-20 Physics of Semiconductors Core Principles is a comprehensive guide that demystifies how semiconductors function from the fundamental physics to the devices we use daily We cater to a general audience with a focus on readers in the United States We begin with the basics of quantum mechanics and solid state physics before diving into how these principles apply to semiconductors like silicon and gallium arsenide We explain crucial concepts such as band theory the flow of electricity through semiconductors and their use in devices like transistors and solar cells Additionally we discuss the manufacturing processes of semiconductors and highlight the advancements scientists are making in developing new and improved semiconductors Physics of Semiconductors Core Principles is an excellent resource for anyone eager to understand the intricacies of this essential technology

Quantum Physics of Semiconductor Materials and Devices Debdeep Jena, 2022-05-16 Quantum Phenomena do not occur in a Hilbert space They occur in a laboratory Asher Peres Semiconductor physics is a laboratory to learn and discover the concepts of quantum mechanics and thermodynamics condensed matter physics and materials science and the payoffs are almost immediate in the form of useful semiconductor devices Debdeep Jena has had the opportunity to work on both sides of the fence on the fundamental materials science and quantum physics of semiconductors and in their applications in semiconductor electronic and photonic devices In Quantum Physics of Semiconductors and Nanostructures Jena uses this experience to make each topic as tangible and accessible as possible to students at all levels Consider the simplest physical processes that occur in semiconductors electron or hole transport in bands and over barriers collision of electrons with the atoms in the crystal or when electrons and holes annihilate each other to produce a photon The correct explanation of these processes require a quantum mechanical treatment Any shortcuts lead to misconceptions that can take years to dispel and sometimes become roadblocks towards a deeper understanding and appreciation of the richness of the subject A typical introductory course on semiconductor physics would then require prerequisites of quantum mechanics statistical physics and thermodynamics materials science and electromagnetism Rarely would a student have all this background when s he takes a course of this nature in most universities Jena s work fills in these gaps and gives students the background and deeper understanding of the quantum

physics of semiconductors and nanostructures *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 **Fundamental Properties of Semiconductor Nanowires** Naoki Fukata, Riccardo Rurali, 2020-11-16 This book covers virtually all aspects of semiconductor nanowires from growth to related applications in detail First it addresses nanowires growth mechanism one of the most important topics at the forefront of nanowire research The focus then shifts to surface functionalization nanowires have a high surface to volume ratio and thus are well suited to surface modification which effectively functionalizes them The book also discusses the latest advances in the study of impurity doping a crucial process in nanowires In addition considerable attention is paid to characterization techniques such as nanoscale and in situ methods which are indispensable for understanding the novel properties of nanowires Theoretical calculations are also essential to understanding nanowires characteristics particularly those that derive directly from their special nature as one dimensional nanoscale structures In closing the book considers future applications of nanowire structures in devices such as FETs and lasers **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. **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. II-VI Semiconductor Materials and their Applications Maria C.

Tamargo, 2018-05-04 II-VI Semiconductor Materials and Their Applications deals with II-VI compound semiconductors and the status of the two areas of current optoelectronics applications: blue-green emitters and IR detectors. Specifically, the growth, characterization, materials, and device issues for these two applications are described. Emphasis is placed on the wide-bandgap emitters where much progress has occurred recently. The book also presents new directions that have potential future applications in optoelectronics for II-VI materials. In particular, it discusses the status of dilute magnetic semiconductors for magneto-optical and electromagnetic devices, nonlinear optical properties, photorefractive effects, and new materials and physics phenomena such as self-organized low-dimensional structures. II-VI Semiconductor Materials and Their

Applications is a valuable reference book for researchers in the field as well as a textbook for materials science and applied physics courses Basic Properties of III-V Devices – Understanding Mysterious Trapping Phenomena Kompa, Günter, 2014 Trapping effects in III V devices pose a great challenge to any microwave device modeler Understanding their physical origins is of prime importance to create physics related reliable device models The treatment of trapping phenomena is commonly beyond the classical higher education level of communication engineers This book provides any basic material needed to understand trapping effects occurring primarily in GaAs and GaN power HEMT devices As the text material covers interdisciplinary topics such as crystal defects and localized charges trap centers and trap dynamics deep level transient spectroscopy and trap centers in passivation layers the book will be of interest to graduate students of electrical engineering communication engineering and physics as well as materials device and circuit engineers in research and industry

Physics and Chemistry of Carbon-Based Materials Yoshihiro Kubozono, 2019-03-26 This book includes the fundamental science and applications of carbon based materials in particular fused polycyclic hydrocarbon fullerene diamond carbides graphite and graphene etc During the past decade these carbon based materials have attracted much interest from many scientists and engineers because of their exciting physical properties and potential application toward electronic and energy devices In this book the fundamental theory referring to these materials their syntheses and characterizations the physical properties physics and the applications are fully described which will contribute to an advancement of not only basic science in this research field but also technology using these materials The book s targets are researchers and engineers in the field and graduate school students who specialize in physics chemistry and materials science Thus this book addresses the physics and chemistry of the principal materials in the twenty first century Semiconductors Martin I.

Pech-Canul, Nuggehalli M. Ravindra, 2019-01-17 This book is a practical guide to optical optoelectronic and semiconductor materials and provides an overview of the topic from its fundamentals to cutting edge processing routes to groundbreaking technologies for the most recent applications The book details the characterization and properties of these materials Chemical methods of synthesis are emphasized by the authors throughout the publication Describes new materials and updates to older materials that exhibit optical optoelectronic and semiconductor behaviors Covers the structural and mechanical aspects of the optical optoelectronic and semiconductor materials for meeting mechanical property and safety requirements Includes discussion of the environmental and sustainability issues regarding optical optoelectronic and semiconductor materials from processing to recycling Solid State Properties Mildred Dresselhaus, Gene

Dresselhaus, Stephen B. Cronin, Antonio Gomes Souza Filho, 2018-01-17 This book fills a gap between many of the basic solid state physics and materials science books that are currently available It is written for a mixed audience of electrical engineering and applied physics students who have some knowledge of elementary undergraduate quantum mechanics and statistical mechanics This book based on a successful course taught at MIT is divided pedagogically into three

parts I Electronic Structure II Transport Properties and III Optical Properties Each topic is explained in the context of bulk materials and then extended to low dimensional materials where applicable Problem sets review the content of each chapter to help students to understand the material described in each of the chapters more deeply and to prepare them to master the next chapters

Spectroscopic Ellipsometry for Photovoltaics Hiroyuki Fujiwara, Robert W. Collins, 2019-01-10 This book provides a basic understanding of spectroscopic ellipsometry with a focus on characterization methods of a broad range of solar cell materials devices from traditional solar cell materials Si CuInGaSe₂ and CdTe to more advanced emerging materials Cu₂ZnSnSe₄ organics and hybrid perovskites fulfilling a critical need in the photovoltaic community The book describes optical constants of a variety of semiconductor light absorbers transparent conductive oxides and metals that are vital for the interpretation of solar cell characteristics and device simulations It is divided into four parts fundamental principles of ellipsometry characterization of solar cell materials structures ellipsometry applications including optical simulations of solar cell devices and online monitoring of film processing and the optical constants of solar cell component layers

Solid State and Quantum Theory for Optoelectronics Michael A. Parker, 2009-12-16 While applications rapidly change one to the next in our commercialized world fundamental principles behind those applications remain constant So if one understands those principles well enough and has ample experience in applying them he or she will be able to develop a capacity for reaching results via conceptual thinking rather than having to

Embracing the Tune of Phrase: An Psychological Symphony within **Fundamentals Of Semiconductors Physics And Materials Properties**

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