SEMICONDUCTORS AND SEMIMETALS

VOLUME 24

Applications of Multiquantum Wells, Selective Doping, and Superlattices

Volume Editor **Raymond Dingle**

Semiconductors And Semimetals Applications Of Multiquantum Wells Selective Doping And Superlattices Volume 24

Antoni Rogalski,Krzysztof Adamiec,Jaroslaw Rutkowski

Semiconductors And Semimetals Applications Of Multiquantum Wells Selective Doping And Superlattices Volume 24:

Semiconductors and Semimetals ,1990-10-10 Semiconductors and Semimetals Physics of Photonic Devices Shun Lien Chuang,2012-11-07 The most up to date book available on the physics of photonic devices This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors Comprehensive timely and practical Physics of Photonic Devices is an invaluable textbook for advanced undergraduate and graduate courses in photonics and an indispensable tool for researchers working in this rapidly growing field *Quantum Semiconductor Structures* Claude Weisbuch,Borge Vinter,2014-06-28 In its original form this widely acclaimed primer on the fundamentals of quantized semiconductor structures was published as an introductory chapter in Raymond Dingle s edited volume 24 of Semiconductors and Semimetals Having already been praised by reviewers for its excellent coverage this material is now available in an updated and expanded student edition This work promises to become a standard reference in the field It covers the basics of electronic states as well as the fundamentals of optical interactions and quantum transport in two dimensional quantized systems This revised student edition also includes entirely new sections discussing applications and one dimensional and zero dimensional systems Available for the first time in a new expanded version Provides a concise introduction to the fundamentals and fascinating applications of quantized semiconductor structures **Narrow-gap Semiconductor Photodiodes** Antoni Rogalski,Krzysztof Adamiec,Jaroslaw Rutkowski,2000 In this monograph investigations of the performance of narrow gap semiconductor photodiodes are presented and recent progress in different IR photodiode technologies is discussed HgCdTe photodiodes InSb photodiodes alternatives to HgCdTe III V and II VI ternary alloy photodiodes lead chalcogenide photodiodes and a new class of photodiodes based on two dimensional solids Investigations of the performance of photodiodes operated in different spectral regions are presented **Photonic Devices and Systems** Robert G. Hunsperger,2017-10-19 This work describes all the major devices used in photonic systems It provides a thorough overview of the field of photonics detailing practical examples of photonic technology in a wide range of applications

Photonic systems and devices are discussed with a mathematical rigor that is precise enough for design purposes yet highly readable *Introduction to Applied Solid State Physics* R. Dalven,2012-12-06 In addition to the topics discussed in the First Edition this Second Edition contains introductory treatments of superconducting materials and of ferromagnetism I think the book is now more balanced because it is divided perhaps 60% 40% between devices of all kinds and materials of all kinds For the physicist interested in solid state applications I suggest that this ratio is reasonable I have also rewritten a number of sections in the interest of hopefully increased clarity The aims remain those stated in the Preface to the First Edition the book is a survey of the physics of a number of solid state devices and ma terials Since my object is a discussion of the basic ideas in a number of fields I have not tried to present the state of the art especially in semi conductor devices Applied solid state physics is too vast and rapidly changing to cover completely and there are many references available to recent developments For these reasons I have not treated a number of interesting areas Among the lacunae are superiattices heterostructures compound semiconductor devices ballistic transistors integrated optics and light wave communications Suggested references to those subjects are given in an appendix I have tried to cover some of the recent revolutionary developments in superconducting materials **Modern Semiconductor Quantum Physics** Ming-Fu Li,1995-02-01 Modern Semiconductor Quantum Physics has the following constituents 1 energy band theory pseudopotential method empirical and ab initio density functional theory quasi particles LCAO method k p method spin orbit splitting effect mass and Luttinger parameters strain effects and deformation potentials temperature effects 2 Optical properties absorption and exciton effect modulation spectroscopy photo luminescence and photo luminescence excitation Raman scattering and polaritons photoionization 3 Defects and Impurities effective mass theory and shallow impurity states deep state cluster method super cell method Green s function method carrier recombination kinetics trapping transient measurements electron spin resonance electron lattice interaction and lattice relaxation effects multi phonon nonradiative recombination negative U center DX center and EL2 Defects 4 Semiconductor surfaces two dimensional periodicity and surface reconstruction surface electronic states photo electron spectroscopy LEED STM and other experimental methods 5 Low dimensional structures Heterojunctions quantum wells superlattices quantum confined Stark effect and Wannier Stark ladder effects resonant tunneling quantum Hall effect quantum wires and quantum dots This book can be used as an advanced textbook on semiconductor physics for graduate students in physics and electrical engineering departments It is also useful as a research reference for solid state scientists and semiconductor device engineers **Optical Properties of Semiconductors** G. Martinez,2013-06-29 It is widely recognized that an understanding of the optical pro perties of matter will give a great deal of important information re levant to the fundamental physical properties This is especially true in semiconductor physics for which due to the intrinsic low screening of these materials the optical response is quite rich Their spectra reflect indeed as well electronic as spin or phonon transitions This is also in the semiconductor field that artificial structures have been

recently developed showing for the first time specific physical properties related to the low dimentionality of the electronic and vi bronic properties with this respect the quantum and fractional quan tum Hall effects are among the most well known aspects The associated reduced screening is also a clear manifestation of these aspects and as such favors new optical properties or at least significantly enhan ces some of them For all these reasons it appeared necessary to try to review in a global way what the optical investigation has brought today about the understanding of the physics of semiconductors This volume collects the papers presented at the NATO Advanced study Inst i tut e on Optical Properties of Semiconductors held at the Ettore Majorana Centre Erice Sicily on March 9th to 20th 1992 This school brought together 70 scientists active in research related to optical properties of semiconductors There were 12 lecturers who pro vided the main contributions

New Ternary Alloy Systems for Infrared Detectors Antoni Rogalski,1994 **Science and Engineering of One- and Zero-Dimensional Semiconductors** Steven P. Beaumont,Clivia M. Sotomayor Torres,2012-12-06 This volume comprises the proceedings of the NATO Advanced Research Workshop on the Science and Engineering of 1 and O dimensional semiconductors held at the University of Cadiz from 29th March to 1st April 1989 under the auspices of the NATO International Scientific Exchange Program There is a wealth of scientific activity on the properties of two dimensional semiconductors arising largely from the ease with which such structures can now be grown by precision epitaxy techniques or created by inversion at the silicon silicon dioxide interface Only recently however has there burgeoned an interest in the properties of structures in which carriers are further confined with only one or in the extreme zero degrees of freedom This workshop was one of the first meetings to concentrate almost exclusively on this subject that the attendance of some forty researchers only represented the community of researchers in the field testifies to its rapid expansion which has arisen from the increasing availability of technologies for fabricating structures with small enough sub O I tm dimensions Part I of this volume is a short section on important topics in nanofabrication It should not be assumed from the brevity of this section that there is little new to be said on this issue rather that to have done justice to it would have diverted attention from the main purpose of the meeting which was to highlight experimental and theoretical research on the structures themselves

Low-dimensional Semiconductors M. J. Kelly,1995-11-23 This text is a first attempt to pull together the whole of semiconductor science and technology since 1970 in so far as semiconductor multilayers are concerned Material technology physics and device issues are described with approximately equal emphasis and form a single coherant point of view The subject matter is the concern of over half of today s active semiconductor scientists and technologists the remainder working on bulk semiconductors and devices It is now routine to design and the prepare semiconductor multilayers at a time with independent control over the dropping and composition in each layer In turn these multilayers can be patterned with features that as a small as a few atomic layers in lateral extent The resulting structures open up many new ares of exciting solid state and quantum physics They have also led to whole new generations of electronic and optoelectronic devices whose

superior performance relates back to the multilayer structures The principles established in the field have several decades to go advancing towards the ultimate of materials engineering the design and preparation of solids atom by atom The book should appeal equally to physicists electronic engineers and materials scientists **Semiconductors and Semimetals** Robert K. Willardson,1998 VLSI Fabrication Principles Sorab K. Ghandhi,1994-03-31 Fully updated with the latest technologies this edition covers thefundamental principles underlying fabrication processes forsemiconductor devices along with integrated circuits made fromsilicon and gallium arsenide Stresses fabrication criteria forsuch circuits as CMOS bipolar MOS FET etc These diversetechnologies are introduced separately and then consolidated intocomplete circuits An Instructor s Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment

Gallium Arsenide and Related Compounds 1991, Proceedings of the Eighteenth INT Symposium, 9-12 September 1991, Seattle, USA Gerald B. Stringfellow,2020-11-26 Gallium Arsenide and Related Compounds 1991emphasizes current results on the materials characterization and device aspects of a broad range of semiconductor materials particularly the III V compounds and alloys The book is a valuable reference for researchers in physics materials science and electronics and electrical engineering who work on III V compounds Semiconductor Interfaces And Microstructures Zhe Chuan Feng,1992-08-31 Recently there have been major achievements in the study of semiconductor interfaces and microstructures for different materials and structural systems Progress has been made through various experimental technologies and theoretical methods This book provides an up to date review on these advances and includes the following major subjects IV IV III V and II VI semiconductors and metal semiconductor structures new developments in growth methods electric optical magnetic and structural characterization and properties relative theories electronic transport phonos and interface modes devices and applications These materials are organized into four sections General III V II VI and IV IV which offer comprehensive information and help readers in following the new developments in the research frontiers of the above fields Nanostructured and Photoelectrochemical Systems for Solar Photon Conversion Mary D. Archer,Arthur J. Nozik,2008 In this book expert authors describe advanced solar photon conversion approaches that promise highly efficient photovoltaic and photoelectrochemical cells with sophisticated architectures on the one hand and plastic photovoltaic coatings that are inexpensive enough to be disposable on the other Their leitmotifs include light induced exciton generation junction architectures that lead to efficient exciton dissociation and charge collection by percolation through mesoscale phases Photocatalysis is closely related to photoelectrochemistry and the fundamentals of both disciplines are covered in this volume *Hot Carriers in Semiconductor Nanostructures* Jagdeep Shah,2012-12-02 Nonequilibrium hot charge carriers play a crucial role in the physics and technology of semiconductor nanostructure devices This book one of the first on the topic discusses fundamental aspects of hot carriers in quasi two dimensional systems and the impact of these carriers on semiconductor devices The work will provide scientists and device engineers with an authoritative review of the

most exciting recent developments in this rapidly moving field It should be read by all those who wish to learn the fundamentals of contemporary ultra small ultra fast semiconductor devices Topics covered include Reduced dimensionality and quantum wells Carrier phonon interactions and hot phonons Femtosecond optical studies of hot carrier Ballistic transport Submicron and resonant tunneling devices **Infrared Detectors** Antonio Rogalski,2010-11-15 Completely revised and reorganized while retaining the approachable style of the first edition Infrared Detectors Second Edition addresses the latest developments in the science and technology of infrared IR detection Antoni Rogalski an internationally recognized pioneer in the field covers the comprehensive range of subjects necessary to un *Extended Defects in Semiconductors* D. B. Holt,B. G. Yacobi,2007-04-12 The elucidation of the effects of structurally extended defects on electronic properties of materials is especially important in view of the current advances in electronic device development that involve defect control and engineering at the nanometer level This book surveys the properties effects roles and characterization of extended defects in semiconductors The basic properties of extended defects dislocations stacking faults grain boundaries and precipitates are outlined and their effect on the electronic properties of semiconductors their role in semiconductor devices and techniques for their characterization are discussed These topics are among the central issues in the investigation and applications of semiconductors and in the operation of semiconductor devices The authors preface their treatment with an introduction to semiconductor materials and conclude with a chapter on point defect maldistributions This text is suitable for advanced undergraduate and graduate students in materials science and engineering and for those studying semiconductor physics *Devices for Integrated Circuits* H. Craig Casey,1998-12-14 This book develops the device physics of the Si and III V compound semiconductor devices used in integrated circuits Important equations are derived from basic physical concepts The physics of these devices are related to the parameters used in SPICE Terminology is intended to prepare students for reading technical journals on semiconductor devices This text is suitable for first year graduate students and seniors in Electrical Engineering graduate students in Material Science and Chemical Engineering interested in semiconductor materials Computer Science students interested in custom VLSI design and professionals in the semiconductor industry

Semiconductors And Semimetals Applications Of Multiquantum Wells Selective Doping And Superlattices Volume 24 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Semiconductors And Semimetals Applications Of Multiquantum Wells Selective Doping And Superlattices Volume 24**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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