



Semiconductor Physics

M. Balkasinski
and R. R. Williams

Semiconductor Physics And Applications

Karlheinz Seeger



Semiconductor Physics And Applications:

Semiconductor Physics and Applications M. Balkanski, Richard Fisher Wallis, 2000-08-31 This textbook covers the basic physics of semiconductors and their applications to practical devices with emphasis on the basic physical principles upon which these devices operate Extensive use of figures is made to enhance the clarity of the presentation and to establish contact with the experimental side of the topic Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work

Semiconductor Physics and Applications Minko Balkanski, 2000 This textbook combines a thorough theoretical treatment of the basic physics of semiconductors with applications to practical devices by putting special emphasis on the physical principles upon which these devices operate Topics treated are the detailed band structure of semiconductors the effect of impurities on electronic states and semiconductor statistics Also discussed are lattice dynamical transport and surface properties as well as optical magneto optical and electro optical properties The applied part of the book treats p n junctions bipolar junction transistors semiconductor lasers and photo devices after which the subject of heterostructures and superlattices is taken up with coverage of electronic lattice dynamical optical and transport properties The book concludes with treatments of metal semiconductor devices such as MOSFETs and devices based on heterostructures Graduate students and lecturers in semiconductor physics condensed matter physics electromagnetic theory and quantum mechanics will find this a useful textbook and reference work R sum de l diteur

The Physics of Semiconductors Marius Grundmann, 2015-12-24 The 3rd edition of this successful textbook contains ample material for a comprehensive upper level undergraduate or beginning graduate course guiding readers to the point where they can choose a special topic and begin supervised research The textbook provides a balance between essential aspects of solid state and semiconductor physics on the one hand and the principles of various semiconductor devices and their applications in electronic and photonic devices on the other It highlights many practical aspects of semiconductors such as alloys strain heterostructures nanostructures that are necessary in modern semiconductor research but typically omitted in textbooks Coverage also includes additional advanced topics such as Bragg mirrors resonators polarized and magnetic semiconductors nanowires quantum dots multi junction solar cells thin film transistors carbon based nanostructures and transparent conductive oxides The text derives explicit formulas for many results to support better understanding of the topics The Physics of Semiconductors requires little or no prior knowledge of solid state physics and evolved from a highly regarded two semester course In the third edition several topics are extended and treated in more depth including surfaces disordered materials amorphous semiconductors polarons thermopower and noise More than 1800 references guide the reader to historic and current literature including original and review papers and books

Physics and Applications of Semiconductor Microstructures Milan Jaros, 1989 Textbook for third year undergraduate to first year graduate students in physics and microelectronics Outlines concepts

concerning the description and applications of novel semiconductor microstructures such as quantum wells superlattices and heterojunction microdevices in general e g lasers transistors optical detectors and switches Annotation copyrighted by Book News Inc Portland OR

Modern Semiconductor Physics and Device Applications Vitalii K Dugaev, Vladimir I Litvinov, 2021-11-22 This textbook provides a theoretical background for contemporary trends in solid state theory and semiconductor device physics It discusses advanced methods of quantum mechanics and field theory and is therefore primarily intended for graduate students in theoretical and experimental physics who have already studied electrodynamics statistical physics and quantum mechanics It also relates solid state physics fundamentals to semiconductor device applications and includes auxiliary results from mathematics and quantum mechanics making the book useful also for graduate students in electrical engineering and material science Key Features Explores concepts common in textbooks on semiconductors in addition to topics not included in similar books currently available on the market such as the topology of Hilbert space in crystals Contains the latest research and developments in the field Written in an accessible yet rigorous manner

Fundamentals of Semiconductor Physics and Devices, 1997 This book is an introduction to the principles of semiconductor physics linking its scientific aspects with practical applications It is addressed to both readers who wish to learn semiconductor physics and those seeking to understand semiconductor devices It is particularly well suited for those who want to do both

The Physics of Semiconductors Kevin F. Brennan, 1999-02-13 Modern fabrication techniques have made it possible to produce semiconductor devices whose dimensions are so small that quantum mechanical effects dominate their behavior This book describes the key elements of quantum mechanics statistical mechanics and solid state physics that are necessary in understanding these modern semiconductor devices The author begins with a review of elementary quantum mechanics and then describes more advanced topics such as multiple quantum wells He then discusses equilibrium and nonequilibrium statistical mechanics Following this introduction he provides a thorough treatment of solid state physics covering electron motion in periodic potentials electron phonon interaction and recombination processes The final four chapters deal exclusively with real devices such as semiconductor lasers photodiodes flat panel displays and MOSFETs The book contains many homework exercises and is suitable as a textbook for electrical engineering materials science or physics students taking courses in solid state device physics It will also be a valuable reference for practising engineers in optoelectronics and related areas

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.

Semiconductor Devices Jasprit Singh, 2000-08-03 This introductory text designed for the first course in semiconductor physics presents a well balanced coverage of semiconductor physics and device operation and shows how devices are optimized for applications. The text begins with an exploration of the basic physical processes upon which all semiconductor devices diodes transistor light emitters and detectors are based. Topics such as bandstructure effective masses holes doping carrier transport and lifetimes are discussed. Next the author focuses on the operation of the important semiconductor devices along with issues relating to the optimization of device performance. Issues such as how doping device dimensions and parasitic effects influence device operation are also included. The book is appropriate for the following courses: Device Physics, Semiconductor Devices, Device Electronics, Physics of Semiconductor Devices, Integrated Circuit Devices, Device Electronics, Solid State Devices.

Semiconductor Physics Karlheinz Seeger, 2013-06-29 The first edition of *Semiconductor Physics* was published in 1973 by Springer Verlag Wien New York as a paperback in the Springer Study Edition. In 1977 a Russian translation by Professor Yu K Pozhela and coworkers at Vilnius USSR was published by Izdatelstvo MIR Moscow. Since then new ideas have been developed in the field of semiconductors such as electron hole droplets dangling bond saturation in amorphous silicon by hydrogen or the determination of the fine structure constant from surface quantization in inversion layers. New techniques such as molecular beam epitaxy which has made the realization of the Esaki superlattice possible, deep level transient spectroscopy and refined Hall techniques have evolved. Now that the Viennese edition is about to go out of print Springer Verlag Berlin Heidelberg New York is giving me the opportunity to include these new subjects in a monograph to appear in the Solid State Sciences series. Again it has been the intention to cover the field of semiconductor physics comprehensively although some chapters such as diffusion of hot carriers and their galvanomagnetic phenomena as well as superconducting degenerate semiconductors and the appendices had to go for commercial reasons. The emphasis is more on physics than on device aspects.

Ultrafast Spectroscopy of Semiconductors and Semiconductor Nanostructures Jagdeep Shah, 2013-11-21 The field of ultrafast spectroscopy of semiconductors and their nanostructures continues to be an active field of research. Exciting new developments have taken place since the first edition of this book was completed in 1995. This revised edition includes a discussion of many of these recent developments in the field. This is accomplished by adding a chapter on Recent Developments at the end of the book. This approach was selected to

provide a discussion of results while they are still relatively recent Results published before the end of May 1998 were considered for inclusion in this book The objective of this revised edition remains the same as before to provide a cohesive discussion of the many diverse contributions of ultrafast spectroscopy to the field of semiconductors Extensive cross references are made to earlier chapters in order to accomplish this goal The chapter on Recent Developments begins with a brief discussion of new lasers new techniques of ultrafast spectroscopy and novel nanostructures This is followed by a section on Coherent Spectroscopy where some of the most interesting recent developments have taken place These include observation of quantum kinetic effects effects that require going beyond the mean field approach of the semiconductor Bloch equations coherent control of populations and current in semiconductors exciton continuum interactions and many diverse aspects of coherent spectroscopy including studies of microcavities Bragg structures quantum dots and quantum wires □

□□□□□□□□□□□□□□□□□□□□ □□□□□□ (Japan),1900 **Optical Properties of Condensed Matter and Applications** Jai Singh,2006-10-02 Following a semi quantitative approach this book presents a summary of the basic concepts with examples and applications and reviews recent developments in the study of optical properties of condensed matter systems Key Features Covers basic knowledge as well as application topics Includes theory experimental techniques and current and developing applications Timely and useful contribution to the literature Written by internationally respected contributors working in physics and electrical engineering departments and government laboratories *The Physics of Semiconductors* Marius Grundmann,2010-02-12 Brings the reader to an overview of the subject as a whole and to the point where they can specialize and enter supervised laboratory research Provides a balance between aspects of solid state and semiconductor physics and the concepts of various semiconductor devices and their applications in electric and photonic devices Proffers explicit formulas with the help of Mathematica for as many as possible results going beyond current textbook equations thus makes easier to understand for undergrads Semiconductor Device Physics and Design Umesh Mishra,Jasprit

Singh,2007-11-06 Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges It begins with coverage of basic physics concepts including the physics behind polar heterostructures and strained heterostructures The book then details the important devices ranging from p n diodes to bipolar and field effect devices By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world

Light-Driven Materials and Devices - Fundamentals and Emerging Applications Murat Kabatas,2025-07-02 This book brings together key concepts and case studies that showcase the evolving role of semiconductors in optoelectronic devices and clean energy technologies It concisely explores materials and methods relevant to photodiodes photodetectors and photocatalytic systems Topics include a simulation based understanding of GaAs PIN photodiodes the fundamentals and historical context of semiconductors and insights into advanced photovoltaic detectors including avalanche structures for

enhanced sensitivity The book also highlights recent approaches in the photodeposition of co catalysts over 2D heterostructures to improve hydrogen production and solar water splitting performance With a balance of foundational knowledge and current research trends this volume offers practical insights into device design light matter interactions and nanomaterial integration It is intended for researchers and engineers in materials science electronics and renewable energy The content is accessible well organized and suitable as a reference or learning resource for those interested in the intersection of semiconductors photonics and sustainable technologies

High Magnetic Fields in Semiconductor Physics III Gottfried Landwehr, 2012-12-06 High magnetic fields have for a long time been an important tool in the investigation of the electronic structure of semiconductors In recent years studies of heterostructures and superlattices have predominated and this emphasis is reflected in these proceedings The contributions concentrate on experiments using transport and optical methods but recent theoretical developments are also covered Special attention is paid to the quantum Hall effect including the problem of edge currents the influence of contacts and Wigner condensation in the fractional quantum Hall effect regime The 27 invited contributions by renowned experts provide an excellent survey of the field that is complemented by numerous contributed papers

Ultrashort Laser Pulses and Applications Wolfgang Kaiser, 2013-03-14 Ten years ago Stanley L Shapiro edited the book entitled Ultrashort Light Pulses Topics Appl Phys Vol 18 which was written by eight experts in the field Six years later Charles V Shank added a bibliography 1980 1983 in the second edition with approximately one thousand new references During the past decade the field has grown so rapidly that a completely new book had to be written In particular the reduction of the time scale of light pulses into the femtosecond range has opened up new experimental possibilities never even foreseen in the preceding literature The vast literature with countless ideas and applications makes it impossible for a single person to write a comprehensive review Nine scientists actively working in the field since its beginning have decided to join forces to prepare a new book describing the present state of the art Emphasis is placed on the generation and numerous applications of ultrashort laser pulses This book covers a wide area of science physics engineering chemistry and biology The various chapters and sections are prepared in each case such that the reader is given a brief introduction to the specific subject Ample references for a more detailed study are given at the end of each chapter

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

Nuclear Methods in Semiconductor Physics G. Langouche, J.C. Soares, J.P. Stoquert, 1992-04-01

The two areas of experimental research explored in this volume are the Hyperfine Interaction Methods focusing on the microscopic configuration surrounding radioactive probe atoms in semiconductors and Ion Beam Techniques using scattering energy loss and channeling properties of highly energetic ions penetrating in semiconductors A large area of interesting local defect studies is discussed Less commonly used methods in the semiconductor field such as nuclear magnetic resonance electron nuclear double resonance muon spin resonance and positron annihilation are also reviewed The broad scope of the contributions clearly demonstrates the growing interest in the use of sometimes fairly unconventional nuclear methods in the field of semiconductor physics

The Top Books of the Year Semiconductor Physics And Applications The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Semiconductor Physics And Applications : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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