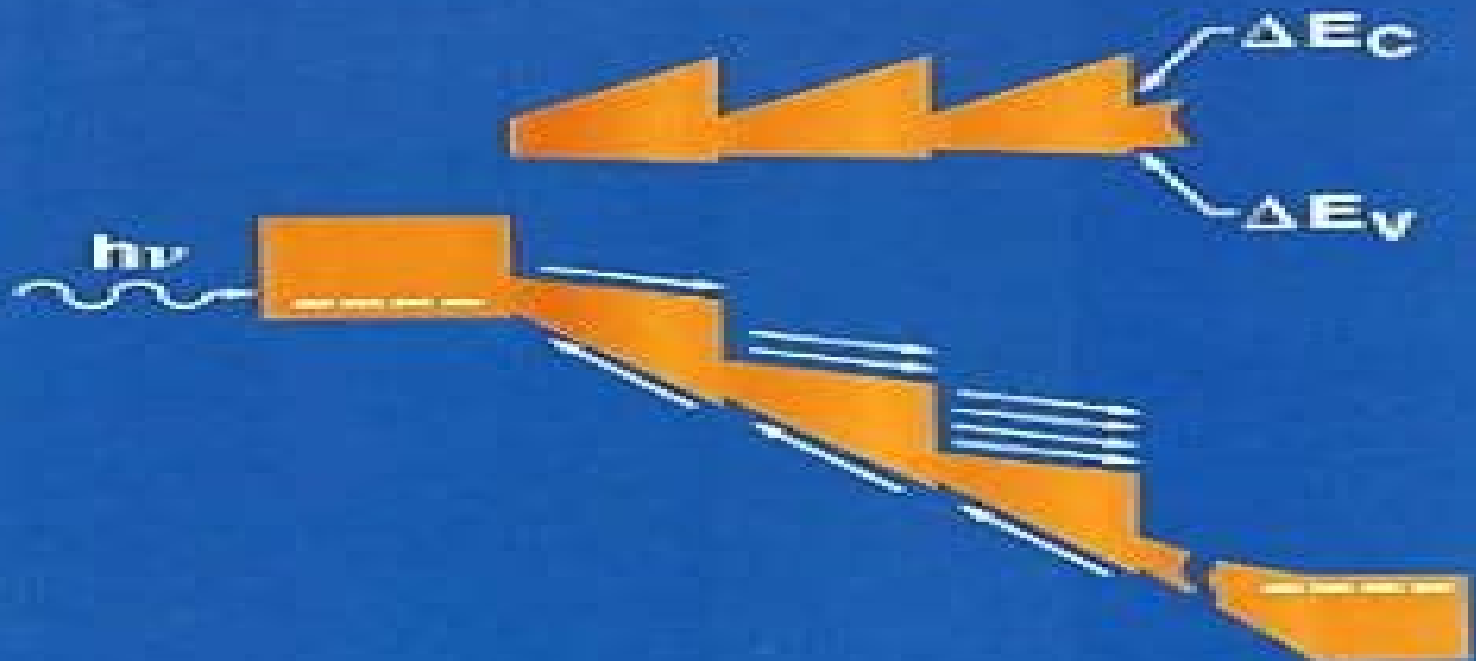


heterojunction band discontinuities physics and device applications



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Heterojunction Band Discontinuities Physics And Device Applications

Leonard J. Brillson



Heterojunction Band Discontinuities Physics And Device Applications:

Heterojunction Band Discontinuities Federico Capasso, Giorgio Margaritondo, 1987 Now also available in paperback is a work which provides the first comprehensive overview of the results obtained after the 1970s A thorough description is given of the properties of semiconductor heterojunctions and their applications in novel devices Particular emphasis is given to the interface band discontinuities Written by top experts in the field this book will be welcomed by engineers physicists and students interested in modern microelectronics

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Surfaces and Interfaces of Electronic Materials Leonard J. Brillson, 2012-06-26 An advanced level textbook covering geometric chemical and electronic structure of electronic materials and their applications to devices based on semiconductor surfaces metal semiconductor interfaces and semiconductor heterojunctions Starting with the fundamentals of electrical measurements on semiconductor interfaces it then describes the importance of controlling macroscopic electrical properties by atomic scale techniques Subsequent chapters present the wide range of surface and interface techniques available to characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth with references to the most authoritative sources for more exhaustive discussions while numerous examples are provided throughout to illustrate the applications of each technique With its general reading lists extensive citations to the text and problem sets appended to all chapters this is ideal for students of electrical engineering physics and materials science It equally serves as a reference for physicists material science and electrical and electronic engineers involved in surface and interface science semiconductor processing and device modeling and design This is a coproduction of Wiley and IEEE Free solutions manual available for lecturers at www.wiley-vch.de/supplements

Heterostructures and Quantum Devices Norman G. Einspruch, William R. Frensley, 2014-06-28 Heterostructure and quantum mechanical devices promise significant improvement in the performance of electronic and optoelectronic integrated circuits ICs Though these devices are the subject of a vigorous research effort the current literature is often either highly technical or narrowly focused This book presents heterostructure and quantum devices to the nonspecialist especially electrical engineers working with high performance semiconductor devices It focuses on a broad base of technical applications using semiconductor physics theory to develop the next generation of electrical engineering devices The text covers existing technologies and future possibilities within a common framework of high performance devices which will have a more immediate impact on advanced

semiconductor physics particularly quantum effects and will thus form the basis for longer term technology development

Physics of Semiconductor Devices Simon M. Sze, Yiming Li, Kwok K. Ng, 2021-03-19 The new edition of the most detailed and comprehensive single volume reference on major semiconductor devices The Fourth Edition of Physics of Semiconductor Devices remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar unipolar special microwave and optoelectronic devices This fully updated and expanded edition includes approximately 1 000 references to original research papers and review articles more than 650 high quality technical illustrations and over two dozen tables of material parameters Divided into five parts the text first provides a summary of semiconductor properties covering energy band carrier concentration and transport properties The second part surveys the basic building blocks of semiconductor devices including p n junctions metal semiconductor contacts and metal insulator semiconductor MIS capacitors Part III examines bipolar transistors MOSFETs MOS field effect transistors and other field effect transistors such as JFETs junction field effect transistors and MESFETs metal semiconductor field effect transistors Part IV focuses on negative resistance and power devices The book concludes with coverage of photonic devices and sensors including light emitting diodes LEDs solar cells and various photodetectors and semiconductor sensors This classic volume the standard textbook and reference in the field of semiconductor devices Provides the practical foundation necessary for understanding the devices currently in use and evaluating the performance and limitations of future devices Offers completely updated and revised information that reflects advances in device concepts performance and application Features discussions of topics of contemporary interest such as applications of photonic devices that convert optical energy to electric energy Includes numerous problem sets real world examples tables figures and illustrations several useful appendices and a detailed solutions manual for Instructor s only Explores new work on leading edge technologies such as MODFETs resonant tunneling diodes quantum cascade lasers single electron transistors real space transfer devices and MOS controlled thyristors Physics of Semiconductor Devices Fourth Edition is an indispensable resource for design engineers research scientists industrial and electronics engineering managers and graduate students in the field **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 **InP and Related Compounds** M O

Manasreh,2000-08-08 InP is a key semiconductor for the production of optoelectronic and photonic devices Its related compounds such as InGaAsP alloy have been realized as very important materials for communication in the 1.3 and 1.55 micron spectral regions Furthermore the applications on InP and related compounds have extended to other areas that include laser diodes light emitting diodes photodetectors waveguides photocathodes solar cells and many other applications The topics presented in this book have been chosen to achieve a balance between the properties of bulk materials doping characterization applications and devices This unique volume featuring chapters written by experts in the field provides a good starting point for those who are new to the subject and contains detailed results and in depth discussions for those who are experts in the field

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

Advanced Calculations for Defects in Materials Audrius Alkauskas,Peter Deák,Jörg Neugebauer,Alfredo Pasquarello,Chris G. Van de Walle,2011-05-16 This book investigates the possible ways of improvement by applying more sophisticated electronic structure methods as well as corrections and alternatives to the supercell model In particular the merits of hybrid and screened functionals as well as of the U methods are assessed in comparison to various perturbative and Quantum Monte Carlo many body theories The inclusion of excitonic effects is also discussed by way of solving the Bethe Salpeter equation or by using time dependent DFT based on GW or hybrid functional calculations

Particular attention is paid to overcome the side effects connected to finite size modeling The editors are well known authorities in this field and very knowledgeable of past developments as well as current advances In turn they have selected respected scientists as chapter authors to provide an expert view of the latest advances The result is a clear overview of the connections and boundaries between these methods as well as the broad criteria determining the choice between them for a given problem Readers will find various correction schemes for the supercell model a description of alternatives by applying embedding techniques as well as algorithmic improvements allowing the treatment of an ever larger number of atoms at a high level of sophistication

Lectures On Methods Of Electronic Structure Calculations - Proceedings Of The Miniworkshop On "Methods Of Electronic Structure Calculations" And Working Group On "Disordered Alloys" Ole Krogh Andersen,V Kumar,Abhijit Mookerjee,1995-02-23 Developments in the density functional theory and the methods of electronic structure calculations have made it possible to carry out ab initio studies of a variety of materials efficiently and at a predictable level This book covers many of those state of the art developments and their applications to ordered and disordered materials surfaces and interfaces and clusters etc

An Essential Guide to Electronic Material Surfaces and Interfaces Leonard J. Brillson,2016-08-01 An Essential Guide to Electronic Material Surfaces and Interfaces is a streamlined yet comprehensive introduction that covers the basic physical properties of electronic materials the experimental techniques used to measure them and the theoretical methods used to understand predict and design them Starting with the fundamental electronic properties of semiconductors and electrical measurements of semiconductor interfaces this text introduces students to the importance of characterizing and controlling macroscopic electrical properties by atomic scale techniques The chapters that follow present the full range of surface and interface techniques now being used to characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth for students to master the fundamental principles with numerous examples to illustrate the strengths and limitations for specific applications As well as references to the most authoritative sources for broader discussions the text includes internet links to additional examples mathematical derivations tables and literature references for the advanced student as well as professionals in these fields This textbook fills a gap in the existing literature for an entry level course that provides the physical properties experimental techniques and theoretical methods essential for students and professionals to understand and participate in solid state electronics physics and materials science research An Essential Guide to Electronic Material Surfaces and Interfaces is an introductory to intermediate level textbook suitable for students of physics electrical engineering materials science and other disciplines It is essential reading for any student or professional engaged in surface and interface research semiconductor processing or electronic device design

Luminescence and Related Properties of II-VI Semiconductors D. R. Vij,N. Singh,1998 This volume provides the readers an in depth yet concise overview of the

physico chemical structures luminescence and related properties of II VI compounds which are being utilised and exhaustively studied these days for their applications in LED s modern optoelectronic devices flat EL screens and panels infrared detectors photovoltaic and thermal solar energy converters etc The book therefore should be useful to a wide variety of people working in the field of luminescence and related properties of II VI compounds i e advanced graduate students and serve as a review to researchers entering in this field and working on these materials It should also be useful to solid state spectroscopists lasers physicists electronic and illuminating engineering people and all those professionals using these materials

Physics of Quantum Electron Devices Federico Capasso, 2013-03-07 The ability to engineer the bandstructure and the wavefunction over length scales previously inaccessible to technology using artificially structured materials and nanolithography has led to a new class of electron semiconductor devices whose operation is controlled by quantum effects These structures not only represent exciting tools for investigating new quantum phenomena in semiconductors but also offer exciting opportunities for applications This book gives the first comprehensive treatment of the physics of quantum electron devices This interdisciplinary field at the junction between material science physics and technology has witnessed an explosive growth in recent years This volume presents a detailed coverage of the physics of the underlying phenomena and their device and circuit applications together with fabrication and growth technology

Band Structure Engineering in Semiconductor Microstructures R.A. Abram, M. Jaros, 2012-12-06 This volume contains the proceedings of the NATO Advanced Research Workshop on Band Structure Engineering in Semiconductor Microstructures held at Il Ciocco Castelveccchio Pascali in Tuscany between 10th and 15th April 1988 Research on semiconductor microstructures has expanded rapidly in recent years as a result of developments in the semiconductor growth and device fabrication technologies The emergence of new semiconductor structures has facilitated a number of approaches to producing systems with certain features in their electronic structure which can lead to useful or interesting properties The interest in band structure engineering has stimulated a variety of physical investigations and novel device concepts and the field now exhibits a fascinating interplay between pure physics and device technology Devices based on microstructures are useful vehicles for fundamental studies but also new device ideas require a thorough understanding of the basic physics Around forty researchers gathered at Il Ciocco in the Spring of 1988 to discuss band structure engineering in semiconductor microstructures

GaAs and Related Materials Sadao Adachi, 1994 This book covers the various material properties of bulk GaAs and related materials and aspects of the physics of artificial semiconductor microstructures such as quantum wells and superlattices made of these materials A complete set of the material properties are considered in this book They are structural properties thermal properties elastic and lattice vibronic properties collective effects and some response characteristics electronic energy band structure and consequences optical elastooptic and electrooptic properties and carrier transport properties This book attempts to summarize in graphical and tabular forms most of the important

theoretical and experimental results on these material properties It contains a large number of references useful for further study Timely topics are discussed as well This book will be of interest to graduate students scientists and engineers working on semiconductors

Basic Properties of Semiconductors P.T. Landsberg, 2016-04-19 Since Volume 1 was published in 1982 the centres of interest in the basic physics of semiconductors have shifted Volume 1 was called Band Theory and Transport Properties in the first edition but the subject has broadened to such an extent that Basic Properties is now a more suitable title Seven chapters have been rewritten by the original authors However twelve chapters are essentially new with the bulk of this work being devoted to important current topics which give this volume an almost encyclopaedic form The first three chapters discuss various aspects of modern band theory and the next two analyze impurities in semiconductors Then follow chapters on semiconductor statistics and on surfaces interfaces and band offsets as they occur in heterojunctions Chapters 8 to 19 report on newer topics though a survey of transport properties of carriers is also included Among these are transport of hot electrons and thermoelectric effects including here and elsewhere properties of low dimensional and mesoscopic structures The electron hole liquid the quantum Hall effect localisation ballistic transport coherence in superlattices current ideas on tunnelling and on quantum confinement and scattering processes are also covered

Photoelectronic Properties of Semiconductors Richard H. Bube, 1992-05-14 The interaction between light and electrons in semiconductors forms the basis for many interesting and practically significant properties This book examines the fundamental physics underlying this rich complexity of photoelectronic properties of semiconductors and will familiarise the reader with the relatively simple models that are useful in describing these fundamentals The basic physics is also illustrated with typical recent examples of experimental data and observations Following introductory material on the basic concepts the book moves on to consider a wide range of phenomena including photoconductivity recombination effects photoelectronic methods of defect analysis photoeffects at grain boundaries amorphous semiconductors photovoltaic effects and photoeffects in quantum wells and superlattices The author is Professor of Materials Science and Electrical Engineering at Stanford University and has taught this material for many years He is an experienced author his earlier books having found wide acceptance and use Readers will therefore find this volume to be an up to date and concise summary of the major concepts models and results It is intended as a text for graduate students but will be an important resource for anyone researching in this interesting field

Handbook of Compound Semiconductors Paul H. Holloway, Gary E.

McGuire, 2008-10-19 This book reviews the recent advances and current technologies used to produce microelectronic and optoelectronic devices from compound semiconductors It provides a complete overview of the technologies necessary to grow bulk single crystal substrates grow hetero or homoepitaxial films and process advanced devices such as HBT s QW diode lasers etc

Semiconductor Quantum Dots Mark Green, 2014-07-01 Quantum dots are nano sized particles of semiconducting material typically chalcogenides or phosphides of metals found across groups II to VI of the periodic table

Their small size causes them to exhibit unique optical and electrical properties which are now finding applications in electronics optics and in the biological sciences Synthesis of these materials began in the late 1980 s and this book gives a thorough background to the topic referencing these early discoveries Any rapidly expanding field will contain vast amounts of publications and this book presents a complete overview of the field bringing together the most relevant and seminal aspects literature in an informed and succinct manner The author has been an active participant in the field since its infancy in the mid 1990 s and presents a unique handbook to the synthesis and application of this unique class of materials Drawing on both his own experience and referencing the primary literature Mark Green has prepared Postgraduates and experienced researchers will benefit from the comprehensive nature of the book as will manufacturers of quantum dots and those wishing to apply them

Characterization of Semiconductor Heterostructures and Nanostructures Giovanni Agostini, Carlo Lamberti, 2013-04-11 Characterization of Semiconductor Heterostructures and Nanostructures is structured so that each chapter is devoted to a specific characterization technique used in the understanding of the properties structural physical chemical electrical etc of semiconductor quantum wells and superlattices An additional chapter is devoted to ab initio modeling The book has two basic aims The first is educational providing the basic concepts of each of the selected techniques with an approach understandable by advanced students in Physics Chemistry Material Science Engineering Nanotechnology The second aim is to provide a selected set of examples from the recent literature of the TOP results obtained with the specific technique in understanding the properties of semiconductor heterostructures and nanostructures Each chapter has this double structure the first part devoted to explain the basic concepts and the second to the discussion of the most peculiar and innovative examples The topic of quantum wells wires and dots should be seen as a pretext of applying top level characterization techniques in understanding the structural electronic etc properties of matter at the nanometer and even sub nanometer scale In this respect it is an essential reference in the much broader and extremely hot field of Nanotechnology Comprehensive collection of the most powerful characterization techniques for semiconductors heterostructures and nanostructures Most of the chapters are authored by scientists that are world wide among the top ten in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapters deals with a selection of top examples highlighting the power of the specific technique to analyse the properties of semiconductors heterostructures and nanostructures

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