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Semiconductor Heterostructures Physical Processes And Applications

M. Balkanski, Richard Fisher Wallis



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Theory of Optical Processes in Semiconductors Prasanta Kumar Basu, P. K. Basu, 2003 Semiconductor optoelectronic devices are at the heart of all information generation and processing systems and are likely to be essential components of future optical computers. With more emphasis on optoelectronics and photonics in graduate programmes in physics and engineering, there is a need for a text providing a basic understanding of the important physical phenomena involved. Such a training is necessary for the design, optimization and search for new materials, devices and application areas. This book provides a simple quantum mechanical theory of important optical processes, i.e. band to band, intersubband and excitonic absorption and recombination in bulk, quantum wells, wires, dots, superlattices and strained layers, including electro-optic effects. The classical theory of absorption, quantization of radiation and band picture based on $k \cdot p$ perturbation have been included to provide the necessary background. Prerequisites for the book are a knowledge of quantum mechanics and solid state theory. Problems have been set at the end of each chapter, some of which may guide the reader to study processes not covered in the book. The application areas of the phenomena are also indicated.

Semiconductor Interfaces, Microstructures and Devices Zhe Chuan Feng, 1993-01-01 A semiconductor interface is the contact between the semiconductor itself and a metal. The interface is a site of change and it is imperative to ensure that the semiconducting material is sealed at this point to maintain its reliability. This book examines various aspects of interfaces, showing how they can affect microstructures and devices such as infrared photodetectors as used in night sights and blue diode lasers. It presents various techniques for examining different types of semiconductor material and suggests future potential commercial applications for different semiconductor devices. Written by experts in their fields and focusing on metallic semiconductors, Cadmium Telluride and related compounds, this comprehensive overview of recent developments is an essential reference for those working in the semiconductor industry and provides a concise and comprehensive introduction to those new to the field.

Semiconductor Physics and Applications M. Balkanski, Richard Fisher Wallis, 2000-08-31 The 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. 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 photonics. Principles and Applications Mauro Nisoli, 2016-12-21 The aim of this book is to introduce and explain important physical processes at the heart of the optical properties of semiconductor devices such as light emitting diodes (LEDs) and semiconductor lasers. It is suitable for a half semester or a one semester course in Photonics or Optoelectronics at the graduate level in engineering, physics, electrical engineering or material science. It offers an advanced analysis of the photo-physics of semiconductors, trying to avoid the use

of exceedingly complex formalisms Particular attention was devoted to offer a clear physical interpretation of all the obtained results Various worked examples are added throughout all the chapters to illustrate the application of the various formulas discussed in the text The book covers fundamental aspects of solid state physics relevant for the calculation and analysis of semiconductor band structure and of quantum mechanics of electron photon interaction The photo physics of bulk and quantum well semiconductors are discussed in detail The final five chapters analyse the physics and properties of important photonic devices light emitting diodes LEDs and lasers including Distributed Feedback DFB lasers Vertical Cavity Surface Emitting Lasers VCSELs and Quantum Cascade Lasers The general philosophy adopted in these chapters is the following the fundamental physical processes are investigated rather than the technological characteristics of the devices

Physics and Technology of Semiconductor Thin Film-Based Active Elements and Devices Halyna Khlyap, 2009 This well organized reference book covers the newest and most important practically applicable results in thin film based semiconductor A2B6 A4B6 and chalcogenide sensors heterojunction based active elements and other devices This book is written for

Soviet Physics, 1991

High Speed Heterostructure Devices, 1994-07-06 Volume 41 includes an in depth review of the most important high speed switches made with heterojunction technology This volume is aimed at the graduate student or working researcher who needs a broad overview and an introduction to current literature The first complete review of InP based HFETs and complementary HFETs which promise very low power and high speed Offers a complete three chapter review of resonant tunneling Provides an emphasis on circuits as well as devices

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

Physics Briefs, 1992

Advanced Semiconductor Heterostructures: Novel Devices, Potential Device Applications And Basic Properties Michael A Stroscio, Mitra Dutta, 2003-09-12 This volume provides valuable summaries on many aspects of advanced semiconductor heterostructures

and highlights the great variety of semiconductor heterostructures that has emerged since their original conception. As exemplified by the chapters in this book, recent progress on advanced semiconductor heterostructures spans a truly remarkable range of scientific fields with an associated diversity of applications. Some of these applications will undoubtedly revolutionize critically important facets of modern technology. At the heart of these advances is the ability to design and control the properties of semiconductor devices on the nanoscale. As an example, the intersubband lasers discussed in this book have a broad range of previously unobtainable characteristics and associated applications as a result of the nanoscale dimensional control of the underlying semiconductor heterostructures. As this book illustrates, an astounding variety of heterostructures can be fabricated with current technology; the potentially widespread use of layered quantum dots fabricated with nanoscale precision in biological applications opens up exciting advances in medicine. In addition, many more excellent examples of the remarkable impact being made through the use of semiconductor heterostructures are given. The summaries in this volume provide timely insights into what we know now about selected areas of advanced semiconductor heterostructures and also provide foundations for further developments.

Analysis, Modeling and Simulation of Multiscale Problems Alexander Mielke, 2006-10-14. This book reports recent mathematical developments in the Programme Analysis Modeling and Simulation of Multiscale Problems, which started as a German research initiative in 2006. Multiscale problems occur in many fields of science, such as microstructures in materials, sharp interface models, many particle systems and motions on different spatial and temporal scales in quantum mechanics or in molecular dynamics. The book presents current mathematical foundations of modeling and proposes efficient numerical treatment.

Coherent Semiconductor Optics Torsten Meier, Peter Thomas, Stephan W. Koch, 2007-02-13. This book could not have been written without the extensive work of many diploma and Ph.D. students in our Theoretical Semiconductor Physics Group at the Philipps University in Marburg. They have contributed to the fundamental understanding and to many applications in the area of coherent semiconductor optics. The one-dimensional tight-binding model, which is exclusively treated in the present book, has been the basis of many of their diploma and Ph.D. theses. The reader will find references to their results and also their names as authors of the publications listed in the sections. Suggested Reading. In particular, the authors wish to thank Irina Kuznetsova, who prepared a large number of the figures and recalculated the underlying data on the basis of the equations presented in this book in cases where parameters or presentation had to be changed and/or optimized. Some of the problems in particular those connected to the more introductory chapters were solved by Swantje Horst and Joachim Kalden. They made valuable suggestions for improved formulation of the problems and pointed out a number of hints we should give our readers in order to help them with the solutions. Furthermore, we wish to thank all our numerous collaborators together with whom we have performed research in the area of coherent semiconductor optics in the past and present for many valuable discussions. In particular, without the close cooperation between experiment and theory, this research field would not have advanced to the

present level *Application of Solar Energy* Radu Rugescu, 2013-02-06 The present science book *Application of Solar Energy* is edited by Professor R D Rugescu in the series on Solar Power and consists of 7 chapters that begin with the proof of the high thermal efficiency of the gravitational draught through concentrated solar heating It continues with novel technologies of producing organic fuels through solar heating new types of photovoltaic cells long term use of thermal solar power plants the efficiency of thermal storage and applications in Niger of the Solar power The reader will be pleasantly impressed by the accompanying drawings and pictures that ease the text assimilation and makes it an attractive practice

Semiconducting Chalcogenide Glass III Robert Fairman, Boris Ushkov, 2004-12-17 Chalcogenide glass is made up of many elements from the Chalcogenide group The glass is transparent to infrared light and is useful as a semiconductor in many electronic devices For example chalcogenide glass fibers are a component of devices used to perform laser surgery Semiconducting Chalcogenide Glass III Applications of Chalcogenide Glasses is a comprehensive overview of designs of various chalcogenide glass devices are presented including switches phase inverters voltage stabilizers oscillators indicators and display control circuits memory devices and sensors A special chapter is devoted to chalcogenide glass applications in optical fibers This collective monograph is intended to survey the current state of chalcogenide glass applications to facilitate further development The first collective monograph written by Eastern European scientists covering electrical and optical properties of chalcogenide vitreous semiconductors CVS Contributions by B G Kolomiets who discovered the properties of chalcogenide glass in 1955 Provides evidence and discussion by authors from opposing positions **Introduction to**

Isotopic Materials Science Vladimir G. Plekhanov, 2018-12-05 This book describes new trends in the nanoscience of isotopic materials science Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning it equips readers to engage in high level professional research in this area The book s main objective is to provide insight into the question of why solids are the way they are either because of how their atoms are bonded with one another because of defects in their structure or because of how they are produced or processed Accordingly it explores the science of how atoms interact connects the results to real materials properties and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design In addition it shows how the concepts discussed are applied in the laboratory The book addresses the needs of researchers graduate students and senior undergraduate students alike Although primarily written for materials science audience it will be equally useful to those teaching in electrical engineering materials science or even chemical engineering or physics curricula In order to maintain the focus on materials concepts however the book does not burden the reader with details of many of the derivations and equations nor does it delve into the details of electrical engineering topics **Nanofabrication**

Techniques , 2023-12-20 Nanofabrication is the process of assembling structures at the nanoscale with unique properties This book describes proficient low cost and robust nanofabrication techniques to produce nanostructures It presents

information on nanofabrication technology principles methodologies equipment and processes as well as discusses the fabrication of new structures for new applications The nanofabrication techniques reviewed are applicable to different engineering processes nano electromechanical systems biosensors nanomaterials photonic crystals devices and new structures This book is a useful resource for students and professionals including engineers scientists researchers technicians and technology managers

Characterization of Semiconductor Heterostructures and Nanostructures Giovanni Agostini, Carlo Lamberti, 2011-08-11 In the last couple of decades high performance electronic and optoelectronic devices based on semiconductor heterostructures have been required to obtain increasingly strict and well defined performances needing a detailed control at the atomic level of the structural composition of the buried interfaces This goal has been achieved by an improvement of the epitaxial growth techniques and by the parallel use of increasingly sophisticated characterization techniques and of refined theoretical models based on ab initio approaches This book deals with description of both characterization techniques and theoretical models needed to understand and predict the structural and electronic properties of semiconductor heterostructures and nanostructures Comprehensive collection of the most powerful characterization techniques for semiconductor heterostructures and nanostructures Most of the chapters are authored by scientists that are among the top 10 worldwide in publication ranking of the specific field Each chapter starts with a didactic introduction on the technique The second part of each chapter deals with a selection of top examples highlighting the power of the specific technique to analyze the properties of semiconductors

Europium Monoxide Arnold S. Borukhovich, Alexey V. Troshin, 2018-03-22 This book presents the physical characteristics and possible device applications of europium monoxide as well as materials based on it It reveals the suitability of this material for device applications in super and semiconductor spin electronics Ferromagnetic semiconductors like europium monoxide have contributed to a fascinating research field in condensed matter physics In the book are presented the electronic and magnetic properties and thermal and resonance parameters of this material its peculiarities in external fields as a function of non stoichiometry doping level both in single crystal and thin film states Particular attention is paid to the possibility to use this monoxide or its solid solutions composites unconventionally for creating spin electronics structures which work at room temperature conditions This book appeals to researchers graduate students and professionals engaged in the development of semiconductor spin electronics and computer devices technologists and theoretical physicists It is important for the calculation development and creation of spin memory devices for a quantum computer

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