

SEMICONDUCTOR
HETEROSTRUCTURES

ALFEROV

ADVANCES IN
SCIENCE AND TECHNOLOGY
IN THE USSR

Semiconductor Heterostructures Physical Processes And Applications

Robert Fairman, Boris Ushkov



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Semiconductor Heterostructures Zh. I. Alferov, 1989

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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 has 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 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.

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 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

Semiconductor Heterostructures Zh. I. Alferov, 1989 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 *Soviet Physics* , 1991 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 *Advanced Semiconductor Heterostructures: Novel Devices, Potential Device Applications And Basic*

Properties Michael A Strosio, 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

Physics Briefs, 1992 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

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.

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.

Nanostructured Semiconductors in Porous Alumina Matrices Rishat G. Valeev, Alexander V. Vakhrushev, Aleksey Yu. Fedotov, Dmitrii I. Petukhov, 2019-08-20. This book *Nanostructured Semiconductors in Porous Alumina Matrices: Modeling, Synthesis and Properties* explores new developments in the modeling, synthesis and properties of

functional semiconductor nanostructures in porous anodic alumina matrices The book focuses on luminescent nanoparticles in organic and inorganic dielectric matrixes specifically in porous alumina films as these are most relevant due to their capacity for particle division and ability to provide environmental protection With a particular emphasis on experimental and theoretical studies of the synthesis processes the book informs readers about these nanostructures through rigorous investigation of their properties The book which is divided into ten chapters begins with a discussion of the existing literature on nanostructural electroluminescent light sources ELS This overview establishes a foundation for the remaining nine chapters which explore in depth many facets of nanostructured materials their composition processes they undergo how they may be implemented etc Within these chapters experimental studies and results are incorporated in addition to detailed descriptions of simulations that highlight different uses of these materials

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

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Semiconductor Heterostructures Physical Processes And Applications**

In a global inundated with displays and the cacophony of immediate communication, the profound power and psychological resonance of verbal art often disappear in to obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, located within the musical pages of **Semiconductor Heterostructures Physical Processes And Applications**, a interesting work of fictional splendor that pulses with fresh feelings, lies an unique journey waiting to be embarked upon. Written by a virtuoso wordsmith, that enchanting opus courses readers on a mental odyssey, delicately exposing the latent potential and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is key themes, dissect its interesting writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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