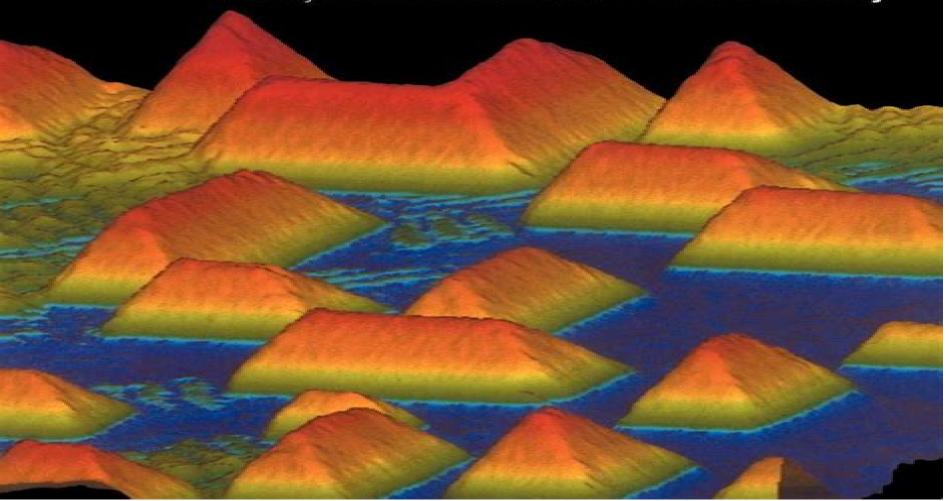
# LOW-DIMENSIONAL semiconductor structures

Fundamentals and device applications

Edited by Keith Barnham and Dimitri Vvedensky



# Low Dimensional Semiconductor Structures Fundamentals And Device Applications

**Keith Barnham, Dimitri Vvedensky** 

#### **Low Dimensional Semiconductor Structures Fundamentals And Device Applications:**

Low-Dimensional Semiconductor Structures Keith Barnham, Dimitri Vvedensky, 2001-07-12 Low Dimensional Semiconductor Structures offers a seamless atoms to devices introduction to the latest quantum heterostructures It covers their fabrication electronic optical and transport properties role in exploring new physical phenomena and utilization in devices The authors describe the epitaxial growth of semiconductors and the physical behavior of electrons and phonons in low dimensional structures They then go on to discuss nonlinear optics in quantum heterostructures The final chapters deal with semiconductor lasers mesoscopic devices and high speed heterostructure devices. The book contains many exercises and Low-Dimensional Semiconductor Structures Keith Barnham, Dimitri comprehensive references Vvedensky, 2008-12-11 Low Dimensional Semiconductor Structures offers a seamless atoms to devices introduction to the latest quantum heterostructures It covers their fabrication electronic optical and transport properties role in exploring new physical phenomena and utilization in devices The authors describe the epitaxial growth of semiconductors and the physical behavior of electrons and phonons in low dimensional structures They then go on to discuss nonlinear optics in quantum heterostructures The final chapters deal with semiconductor lasers mesoscopic devices and high speed heterostructure devices The book contains many exercises and comprehensive references Devices Based on Low-Dimensional Semiconductor Structures M. Balkanski, 2012-12-06 Low dimensional semiconductor quantum structures are a major high technological development that has a considerable industrial potential. The field is developing extremely rapidly and the present book represents a timely guide to the latest developments in device technology fundamental properties and some remarkable applications The content is largely tutorial and the book could be used as a textbook The book deals with the physics fabrication characteristics and performance of devices based on low dimensional semiconductor structures It opens with fabrication procedures The fundamentals of quantum structures and electro optical devices are dealt with extensively Nonlinear optical devices are discussed from the point of view of physics and applications of exciton saturation in MOW structures Waveguide based devices are also described in terms of linear and nonlinear coupling The basics of pseudomorphic HEMT technology device physics and materials layer design are presented Each aspect is reviewed from the elementary basics up to the latest developments Audience Undergraduates in electrical engineering graduates in physics and engineering schools Useful for active scientists and engineers wishing to update their knowledge and understanding of Isotope Low-Dimensional Structures Vladimir G. Plekhanov, 2012-05-08 This Briefs volume recent developments describes the properties and structure of elementary excitations in isotope low dimensional structures Without assuming prior knowledge of quantum physics the present book provides the basic knowledge needed to understand the recent developments in the sub disciplines of nanoscience isotopetronics novel device concepts and materials for nanotechnology It is the first and comprehensive interdisciplinary account of the newly developed scientific discipline isotopetronics Device

Applications of Low-dimensional Semiconductor Structures James Michael Alexander Gilman, 1991 Advanced Electronic Technologies and Systems Based on Low-Dimensional Quantum Devices M. Balkanski, Nikolai Andreev, 2013-03-14 This volume on Advanced Electronic Technologies and Systems based on Low Dimensional Quantum Devices closes a three years series of NATO AS's The first year was focused on the fundamental properties and applications. The second year was devoted to Devices Based on Low Dimensional Semiconductor Structures The third year is covering Systems Based on Low Dimensional Quantum Semiconductor Devices The three volumes containing the lectures given at the three successive NATO ASI s constitute a complete review on the latest advances in semiconductor Science and Technology from the methods of fabrication of the quantum structures through the fundamental physics am basic knowledge of properties and projection of performances to the technology of devices and systems In the first volume Fabrication Properties and Application of Low Dimensional Semiconductors are described the practical ways in which quantum structures are produced the present status of the technology difficulties encountered and advances to be expected The basic theory of Quantum Wells Double Quantum Wells and Superlattices is introduced and the fundamental aspects of their optical properties are presented The effect of reduction of dimensionality on lattice dynamics of quantum structures is also discussed In the second volume Devices Based on Low Dimensional Structures the fundamentals of quantum structures and devices in the two major fields Electro Optical Devices and Pseudomorphic High Eectron Mobility Transistors are extensively discussed **Semiconductor Quantum Optics** Mackillo Kira, Stephan W. Koch, 2011-11-17 The emerging field of semiconductor quantum optics combines semiconductor physics and quantum optics with the aim of developing quantum devices with unprecedented performance In this book researchers and graduate students alike will reach a new level of understanding to begin conducting state of the art investigations. The book combines theoretical methods from quantum optics and solid state physics to give a consistent microscopic description of light matter and many body interaction effects in low dimensional semiconductor nanostructures It develops the systematic theory needed to treat semiconductor quantum optical effects such as strong light matter coupling light matter entanglement squeezing as well as quantum optical semiconductor spectroscopy Detailed derivations of key equations help readers learn the techniques and nearly 300 exercises help test their understanding of the materials covered The book is accompanied by a website hosted by the authors containing further discussions on topical issues latest trends and publications on the field The link can be found at www cambridge org 9780521875097 **Ouantum Semiconductor Structures** Claude Weisbuch, Borge Vinter, 1991-05-12 A review of the fundamentals of quantified semiconductor structures first seen as an introductory chapter in Volume 24 of Semiconductors and Semimetals which covers the basics of electronic states optical interactions and quantum transport in two dimensional quantified systems The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our

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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

Advanced Electronic Technologies and Systems Based on Low-Dimensional Quantum Devices M.

Balkanski,Nikolai Andreev,2010-12-15 This volume on Advanced Electronic Technologies and Systems based on Low Dimensional Quantum Devices closes a three years series of NATO AS s The first year was focused on the fundamental properties and applications The second year was devoted to Devices Based on Low Dimensional Semiconductor Structures The third year is covering Systems Based on Low Dimensional Quantum Semiconductor Devices The three volumes containing the lectures given at the three successive NATO ASI s constitute a complete review on the latest advances in semiconductor Science and Technology from the methods of fabrication of the quantum structures through the fundamental physics am basic knowledge of properties and projection of performances to the technology of devices and systems In the first volume Fabrication Properties and Application of Low Dimensional Semiconductors are described the practical ways in which quantum structures are produced the present status of the technology difficulties encountered and advances to be expected The basic theory of Quantum Wells Double Quantum Wells and Superlattices is introduced and the fundamental aspects of their optical properties are presented The effect of reduction of dimensionality on lattice dynamics of quantum structures is also discussed In the second volume Devices Based on Low Dimensional Structures the fundamentals of quantum structures and devices in the two major fields Electro Optical Devices and Pseudomorphic High Eectron Mobility Transistors are extensively discussed Sensors, Nanoscience, Biomedical Engineering, and Instruments Richard C.

Dorf, 2018-10-03 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has expanded into a set of six books carefully focused on a specialized area or field of study Each book represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It explores the emerging fields of sensors nanotechnologies and biological effects Each article includes defining terms references and sources of further information Encompassing the work of the world's foremost experts in their respective specialties Sensors Nanoscience Biomedical Engineering and Instruments features the latest developments the broadest scope of coverage and new material on multisensor data fusion and MEMS and NEMS Effect of Static Electric Fields on The Electronic And Optical Properties of Layered Semiconductor Nanostructures Volodya A. Harutyunyan, 2015-11-04 This volume investigates the theory of the effect of static electric fields on one electron states in nanocylindrical and nanospherical heterolayers and quantized semiconductor films Homogeneous external electrostatic field for all these structures has been considered as a universal modulating factor For structures with radial symmetry a study on the influence of radial static field and the electric field of a charged ring on one electron states is presented Chapters focusing on homogeneous field effect on low dimensional excitonic states in the quantized films and quantum wires in both wide bandgap and narrowband semiconductors are also included Other contents include calculations weak moderate and strong electric fields quantum mechanical approximation and perturbation theory the quasi classical approximation WKB method Readers will benefit from the varied methodological to the subject which gives them a concrete analytical framework to solve problems related to nanoscale semiconductor design The reference should prove to be useful to academics and professionals working in semiconductor nanoelectronics research and development Micro and Nano Machined Electrometers Yong Zhu, 2020-02-13 This book reviews advances in cutting edge micro nano electrometers and discusses the technological challenges involved in their practical implementation. The detection of electrostatic charge has a wide range of applications in ionization chambers bio analyte and aerosol particle instruments mass spectrometers scanning tunneling microscopes and even quantum computers Designing micro nano electrometers also known as charge sensors for electrometry is considered vital because of the charge sensitivity and resolution issues at micro nano scales The remarkably dynamic microelectromechanical systems MEMSs nanoelectromechanical systems NEMSs and advances in solid state electronics hold considerable potential for the design and fabrication of extremely sensitive charge sensors Advances in Solar Energy: Volume 17 D. Yogi Goswami, 2015-12-08 Essential for any serious technical library PROFESSOR MARTIN GREEN UNIVERSITY OF NEW SOUTHWALES AUSTRALIA Valuable detailed information that helps me plan for the future

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