

Quantum Wells

**Physics and
Electronics of
Two-Dimensional
Systems**



A. Shik

World Scientific

Quantum Wells Physics And Electronics Of Twodimensional Systems

Douglas Natelson



Quantum Wells Physics And Electronics Of Twodimensional Systems:

Quantum Wells: Physics And Electronics Of Two-dimensional Systems Alexander Shik,1998-01-09 This invaluable book is devoted to the physics technology and device applications of semiconductor structures with ultrathin layers where the electronic properties are governed by the quantum mechanical laws Such structures called quantum wells or structures with the two dimensional electron gas have become one of the most actively investigated objects in modern solid state physics Electronic properties of quantum wells differ dramatically from those of bulk semiconductors which allows one to observe new types of physical phenomena such as the quantum Hall effect and many other so far unknown kinetic and optical effects This in turn offers wide opportunities for creating semiconductor devices based on new principles and it has give birth to the new branch of electronics called nanoelectronics

The Physics of the Two-Dimensional Electron Gas J.T. Devreese,F.M. Peeters,2012-12-06 The 1986 Advanced Study Institute on The Physics of the two Dimen sional Electron Gas took place at the Conference Centre liTer Helme close to Oostende Belgium from June 2 till 16 1986 We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two dimensional electron gas An additional motivation was our own theore tical interest in cyclotron resonance in two dimensional electron systems at our institute It is my pleasure to thank several instances and people who made this Advanced Study Institute possible First of all the sponsor of the Advanced Study Institute the NATO Scientific Committee Furthermore the co sponsors Agfa Gevaert Bell Telephone Mfg Co N V Burroughs Belgium Control Data Digital Equipment Corporation Esso Belgium European Research Office USA Kredietbank National Science Foundation USA Special thanks are due to the members of the Program Committee and the members of the Organizing Committee I would also like to thank Mrs H Evans for typing assistance

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

Nanostructures and Nanotechnology Douglas Natelson,2015-06-18 Focusing on the fundamental principles

of nanoscience and nanotechnology this carefully developed textbook will equip students with a deep understanding of the nanoscale Each new topic is introduced with a concise summary of the relevant physical principles emphasising universal commonalities between seemingly disparate areas and encouraging students to develop an intuitive understanding of this diverse area of study Accessible introductions to condensed matter physics and materials systems provide students from a broad range of scientific disciplines with all the necessary background Theoretical concepts are linked to real world applications allowing students to connect theory and practice Chapters are packed with problems to help students develop and retain their understanding as well as engaging colour illustrations and are accompanied by suggestions for additional reading Containing enough material for a one or two semester course this is an excellent resource for senior undergraduate and graduate students with backgrounds in physics chemistry materials science and electrical engineering

Quantum Wells, Wires and Dots Paul Harrison, 2011-09-26 Quantum Wells Wires and Dots 3rd Edition is aimed at providing all the essential information both theoretical and computational in order that the reader can starting from essentially nothing understand how the electronic optical and transport properties of semiconductor heterostructures are calculated Completely revised and updated this text is designed to lead the reader through a series of simple theoretical and computational implementations and slowly build from solid foundations to a level where the reader can begin to initiate theoretical investigations or explanations of their own

Photovoltaics for the 21st Century II Electrochemical Society. Energy Technology Division, 2001 Presentations of the Symposium on Photovoltaics for the 21st Century II part of the 199th Meeting of the Electrochemical Society held in Washington D C in March 2001 Pref

Effective Electron Mass in Low-Dimensional Semiconductors Sitangshu Bhattacharya, Kamakhya Prasad Ghatak, 2012-10-05 This book deals with the Effective Electron Mass EEM in low dimensional semiconductors The materials considered are quantum confined non linear optical III V II VI GaP Ge PtSb₂ zero gap stressed Bismuth carbon nanotubes GaSb IV VI Te II V Bi₂Te₃ Sb III V II VI IV VI semiconductors and quantized III V II VI IV VI and HgTe CdTe superlattices with graded interfaces and effective mass superlattices The presence of intense electric field and the light waves change the band structure of optoelectronic semiconductors in fundamental ways which have also been incorporated in the study of the EEM in quantized structures of optoelectronic compounds that control the studies of the quantum effect devices under strong fields The importance of measurement of band gap in optoelectronic materials under strong electric field and external photo excitation has also been discussed in this context The influence of crossed electric and quantizing magnetic fields on the EEM and the EEM in heavily doped semiconductors and their nanostructures is discussed This book contains 200 open research problems which form the integral part of the text and are useful for both Ph D aspirants and researchers in the fields of solid state sciences materials science nanoscience and technology and allied fields in addition to the graduate courses in modern semiconductor nanostructures The book is written for post graduate students researchers and engineers professionals in the fields of solid

state sciences materials science nanoscience and technology nanostructured materials and condensed matter physics

Springer Handbook of Materials Data Hans Warlimont, Werner Martienssen, 2018-07-27 The second edition of this well received handbook is the most concise yet comprehensive compilation of materials data The chapters provide succinct descriptions and summarize essential and reliable data for various types of materials The information is amply illustrated with 900 tables and 1050 figures selected primarily from well established data collections such as Landolt B r nstein which is now part of the SpringerMaterials database The new edition of the Springer Handbook of Materials Data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements 25 chapters collect and summarize the most frequently used data and relationships for numerous metals nonmetallic materials functional materials and selected special structures such as liquid crystals and nanostructured materials Along with careful updates to the content and the inclusion of timely and extensive references this second edition includes new chapters on polymers materials for solid catalysts and low dimensional semiconductors This handbook is an authoritative reference resource for engineers scientists and students engaged in the vast field of materials science

Next Generation Photovoltaics A. Marti, A. Luque, 2003-09-01 Although photovoltaics are regarded by many as the most likely candidate for long term sustainable energy production their implementation has been restricted by the high costs involved Nevertheless the theoretical limit on photovoltaic energy conversion efficiency above 85% suggests that there is room for substantial improvement of current comme

Fowler-Nordheim Field Emission Sitangshu Bhattacharya, Kamakhya Prasad Ghatak, 2012-01-13 This monograph solely presents the Fowler Nordheim field emission FNFE from semiconductors and their nanostructures The materials considered are quantum confined non linear optical III V II VI Ge Te carbon nanotubes PtSb₂ stressed materials Bismuth GaP Gallium Antimonide II V Bi₂Te₃ III V II VI IV VI and HgTe CdTe superlattices with graded interfaces and effective mass superlattices under magnetic quantization and quantum wires of the aforementioned superlattices The FNFE in opto electronic materials and their quantum confined counterparts is studied in the presence of light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices The importance of band gap measurements in opto electronic materials in the presence of external fields is discussed from this perspective This monograph contains 200 open research problems which form the very core and are useful for Ph D students and researchers The book can also serve as a basis for a graduate course on field emission from solids

Dispersion Relations in Heavily-Doped Nanostructures Kamakhya Prasad Ghatak, 2015-10-26 This book presents the dispersion relation in heavily doped nano structures The materials considered are III V II VI IV VI GaP Ge Platinum Antimonide stressed GaSb Te II V HgTe CdTe superlattices and Bismuth Telluride semiconductors The dispersion relation is discussed under magnetic quantization and on the basis of carrier energy spectra The influences of magnetic field magneto inversion and magneto nipi structures on nano structures is

analyzed The band structure of optoelectronic materials changes with photo excitation in a fundamental way according to newly formulated electron dispersion laws They control the quantum effect in optoelectronic devices in the presence of light The measurement of band gaps in optoelectronic materials in the presence of external photo excitation is displayed The influences of magnetic quantization crossed electric and quantizing fields intense electric fields on the on the dispersion relation in heavily doped semiconductors and super lattices are also discussed This book contains 200 open research problems which form the integral part of the text and are useful for graduate students and researchers The book is written for post graduate students researchers and engineers

Electronic Systems and Applications R. P Agarwal, S Sarkar, 1994 Thermoelectric Power in Nanostructured Materials Kamakhya Prasad Ghatak, Sitangshu Bhattacharya, 2010-07-20 This is the first monograph which solely investigates the thermoelectric power in nanostructured materials under strong magnetic field TPSP in quantum confined nonlinear optical III V II VI n GaP n Ge Te Graphite PtSb₂ zerogap II V Gallium Antimonide stressed materials Bismuth IV VI lead germanium telluride Zinc and Cadmium diphosphides Bi₂Te₃ Antimony and carbon nanotubes III V II VI IV VI and HgTe CdTe superlattices with graded interfaces and effective mass superlattices under magnetic quantization the quantum wires and dots of the aforementioned superlattices by formulating the appropriate respective carrier energy spectra which in turn control the quantum processes in quantum effect devices The TPSP in macro quantum wire and quantum dot superlattices of optoelectronic materials in the presence of external photo excitation have also been studied on the basis of newly formulated electron dispersion laws This monograph contains 150 open research problems which form the very core and are useful for PhD students and researchers in the fields of materials science solid state sciences computational and theoretical nanoscience and technology nanostructured thermodynamics and condensed matter physics in general in addition to the graduate courses on modern thermoelectric materials in various academic departments of many institutes and universities

Electronic Properties of Multilayers and Low-Dimensional Semiconductor Structures J.M. Chamberlain, L. Eaves, J.C. Portal, 2012-12-06 This Advanced Study Institute on the Electronic Properties of Multilayers and Low Dimensional Semiconductor Structures focussed on several of the most active areas in modern semiconductor physics These included resonant tunnelling and superlattice phenomena and the topics of ballistic transport quantised conductance and anomalous magnetoresistance effects in laterally gated two dimensional electron systems Although the main emphasis was on fundamental physics a series of supporting lectures described the underlying technology Molecular Beam Epitaxy Metallo Organic Chemical Vapour Deposition Electron Beam Lithography and other advanced processing technologies Actual and potential applications of low dimensional structures in optoelectronic and high frequency devices were also discussed The ASI took the form of a series of lectures of about fifty minutes duration which were given by senior researchers from a wide range of countries Most of the lectures are recorded in these Proceedings The younger members of the Institute made the predominant contribution to the discussion sessions

following each lecture and in addition provided most of the fifty five papers that were presented in two lively poster sessions The ASI emphasised the impressive way in which this research field has developed through the fruitful interaction of theory experiment and semiconductor device technology Many of the talks demonstrated both the effectiveness and limitations of semiclassical concepts in describing the quantum phenomena exhibited by electrons in low dimensional structures

Graphene-Based Terahertz Electronics and Plasmonics Vladimir Mitin,Victor Ryzhii,Taiichi Otsuji,2020-11-23 Graphene demonstrates interesting electrical optical and optoelectronic properties A number of other one atom thick material structures have been discovered and studied Industrially applicable technologies for these structures are currently under active development In spite of enormous research in the area of devices based on graphene the number of extensive review publications on THz devices based on graphene is small This review volume would fill the gap Researchers and engineers working in the fields of electronics and plasmonics can use it to understand the influence of plasmonics on device performance The book can be also be used as a required text for doctorate courses and as a supplementary material for postgraduate courses The material presented in the book is reviewed in detail in Chapter 1 Chapter 2 discusses the electronic and plasmonic properties of graphene and heterostructures based on graphene for all devices Chapters 3 7 focus on the concepts of detectors and emitters with a special emphasis on plasmonic enhancement of those devices as well as on population inversion and lasing

Nanomaterials Engg Kamakhya Prasad Ghatak,Madhuchhanda Mitra,2018-11-05 The work studies under different physical conditions the carrier contribution to elastic constants in heavily doped optoelectronic materials In the presence of intense photon field the authors apply the Heisenberg Uncertainty Principle to formulate electron statistics Many open research problems are discussed and numerous potential applications as quantum sensors and quantum cascade lasers are presented

Nano-Structured Photovoltaics Vinod Kumar Khanna,2022-12-20 Presenting a comprehensive overview of a rapidly burgeoning field blending solar cell technology with nanotechnology the book covers topics such as solar cell basics nanotechnology fundamentals nanocrystalline silicon based solar cells nanotextured surface solar cells plasmon enhanced solar cells optically improved nanoengineered solar cells dye sensitized solar cells 2D perovskite and 2D 3D multidimensional perovskite solar cells carbonaceous nanomaterial based solar cells quantum well solar cells nanowire solar cells and quantum dot solar cells The book provides an in depth and lucid presentation of the subject matter in an elegant easy to understand writing style starting from basic knowledge through principles of operation and fabrication of devices to advanced research levels encompassing the recent breakthroughs and cutting edge innovations It will be useful for graduate and PhD students scientists and engineers Key features Builds an integrated perspective of photovoltaics by highlighting the essential role of nanotechnology in each type of solar cell Performs simplified mathematical analysis of operational mechanisms of nanostructured solar cells supplemented with solved examples Enhances learning with clear explanations of technological advances and illustrative diagrams without sacrificing scientific rigor

Comprehensive Nanoscience and Technology, 2010-10-29 From the Introduction Nanotechnology and its underpinning sciences are progressing with unprecedented rapidity With technical advances in a variety of nanoscale fabrication and manipulation technologies the whole topical area is maturing into a vibrant field that is generating new scientific research and a burgeoning range of commercial applications with an annual market already at the trillion dollar threshold The means of fabricating and controlling matter on the nanoscale afford striking and unprecedented opportunities to exploit a variety of exotic phenomena such as quantum nanophotonic and nanoelectromechanical effects Moreover researchers are elucidating new perspectives on the electronic and optical properties of matter because of the way that nanoscale materials bridge the disparate theories describing molecules and bulk matter Surface phenomena also gain a greatly increased significance even the well known link between chemical reactivity and surface to volume ratio becomes a major determinant of physical properties when it operates over nanoscale dimensions Against this background this comprehensive work is designed to address the need for a dynamic authoritative and readily accessible source of information capturing the full breadth of the subject Its six volumes covering a broad spectrum of disciplines including material sciences chemistry physics and life sciences have been written and edited by an outstanding team of international experts Addressing an extensive cross disciplinary audience each chapter aims to cover key developments in a scholarly readable and critical style providing an indispensable first point of entry to the literature for scientists and technologists from interdisciplinary fields The work focuses on the major classes of nanomaterials in terms of their synthesis structure and applications reviewing nanomaterials and their respective technologies in well structured and comprehensive articles with extensive cross references It has been a constant surprise and delight to have found amongst the rapidly escalating number who work in nanoscience and technology so many highly esteemed authors willing to contribute Sharing our anticipation of a major addition to the literature they have also captured the excitement of the field itself in each carefully crafted chapter Along with our painstaking and meticulous volume editors full credit for the success of this enterprise must go to these individuals together with our thanks for largely adhering to the given deadlines Lastly we record our sincere thanks and appreciation for the skills and professionalism of the numerous Elsevier staff who have been involved in this project notably Fiona Geraghty Megan Palmer and Greg Harris and especially Donna De Weerd Wilson who has steered it through from its inception We have greatly enjoyed working with them all as we have with each other

Properties of III-V Quantum Wells and Superlattices P. K. Bhattacharya, Pallab Bhattacharya, 1996 A finely structured state of the art review on controlled building of atomic scale multilayers where nanometric structures based on III V semiconductors have attracted particular attention

Comprehensive Nanoscience and Nanotechnology, 2019-01-02 Comprehensive Nanoscience and Technology Second Edition Five Volume Set allows researchers to navigate a very diverse interdisciplinary and rapidly changing field with up to date comprehensive and authoritative coverage of every aspect of modern nanoscience and nanotechnology Presents new

chapters on the latest developments in the field Covers topics not discussed to this degree of detail in other works such as biological devices and applications of nanotechnology Compiled and written by top international authorities in the field

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