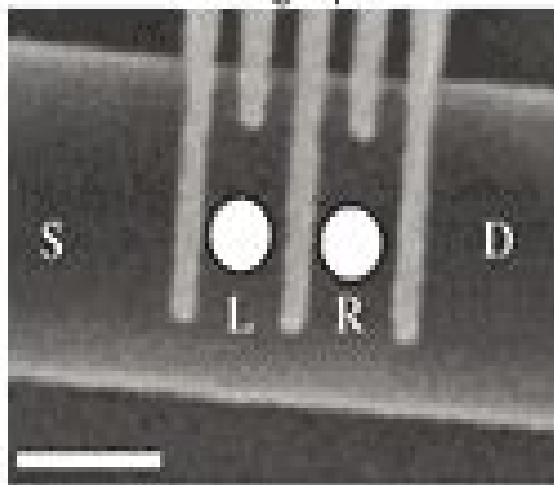


Scanning electron micrograph



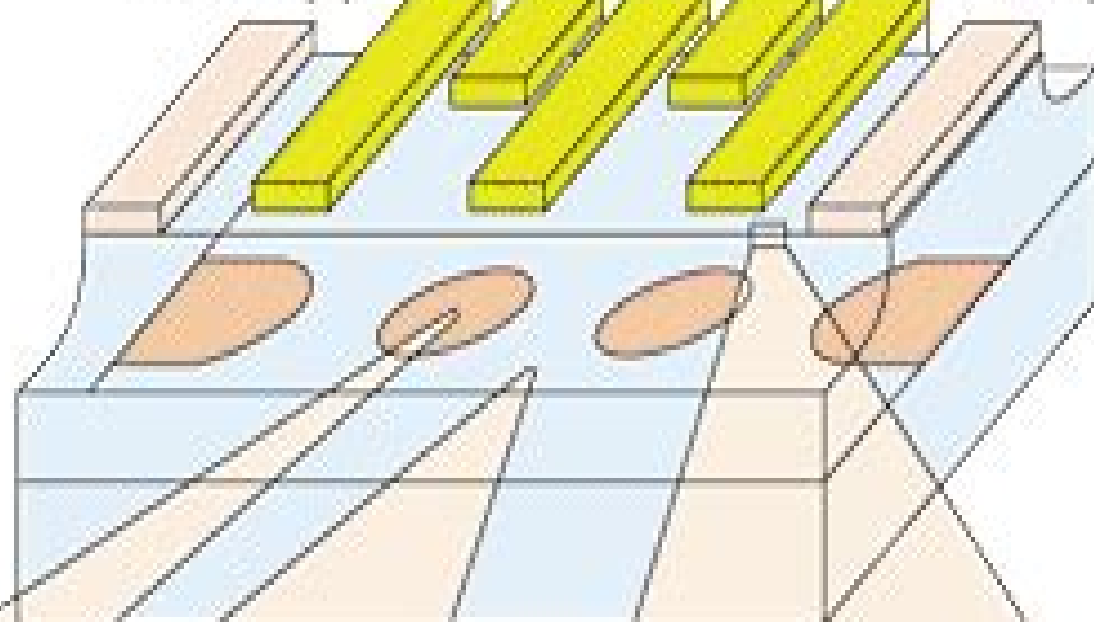
300 nm

Quantum dot structure

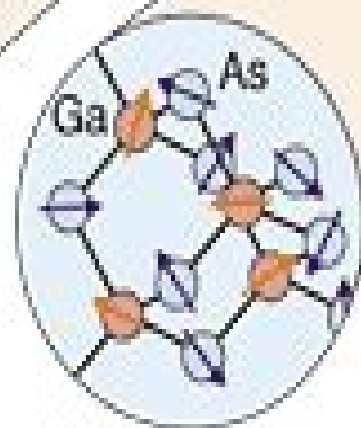
Gate electrodes

Source (S)

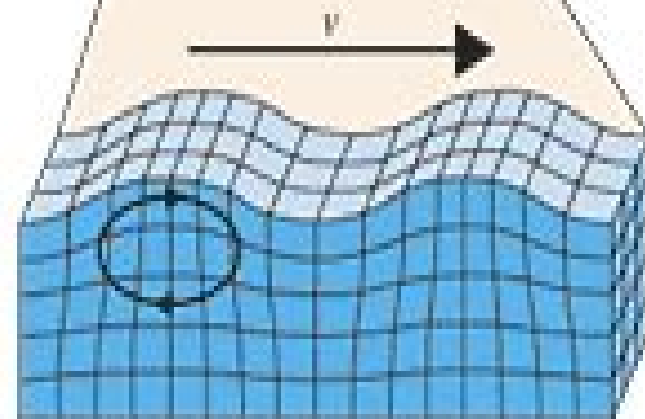
Drain (D)



Charge and spin degrees of freedom



Nuclear spins



Surface acoustic wave

Theory Of Semiconductor Quantum Devices

Theory Of Semiconductor Quantum Devices

Jianping Sun



Theory Of Semiconductor Quantum Devices Theory Of Semiconductor Quantum Devices:

Theory of Semiconductor Quantum Devices Fausto Rossi, 2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultrasmall space and time scales as well as of their semiclassical counterparts

Physical Models of Semiconductor Quantum Devices Ying Fu, Magnus Willander, 2013-11-27 Solid state electronics is undergoing rapid changes driven by heteroepitaxy lithography and new device concepts While ten years ago Si was the material of choice in solid state electronics now GaAs InGaAs AlAs InP Ge etc have all become quite important The advent of semiconductor lasers and integrated optoelectronic circuits has led to a flurry of activities in compound semiconductors Additionally the remarkable advances in the thin film epitaxy have allowed active semiconductor devices with sub three dimensional properties and built in controlled biaxial strain due to lattice mismatch This book addresses three main areas of interest i electronic and optical properties of low dimensional semiconductor materials ii principal physics of quantum electronic devices iii principal physics of quantum optical devices These areas will provide readers with an intimate knowledge of the new material properties on which novel solid state electronic devices such as quantum diode and small size transistor high electron mobility transistor are based leading to the very front of the development of material and device research The link between basic physics on which the real devices are based and the output from the real devices is closely observed in the book Chapter 1 Elemental and compound semiconductors 1 1 Crystalline nature of solids The intrinsic property of a crystal is that the environment around a given atom or group of atoms is exactly the same as the environment around another atom or similar group of atoms

Modeling of Semiconductor Quantum Devices and Its Applications Jianping Sun, 1993 **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

Handbook of Optoelectronic Device Modeling and Simulation Joachim Piprek, 2017-10-10 Optoelectronic devices are now ubiquitous in our daily lives from light emitting diodes LEDs in many household appliances to solar cells for energy This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design analysis and performance optimization It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non specialists to perform sophisticated modeling and simulation tasks The chapters comprise the know how of more than a hundred experts from all over the world The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field

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 ASI 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 Electron Mobility Transistors are extensively discussed

Semiconductor Quantum Optics Mackillo Kira, 2012 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

Theory of Modern Electronic Semiconductor Devices Kevin F. Brennan, April S. Brown, 2002-03-07 A thorough examination of the present and future of semiconductor device technology Engineers continue to develop new electronic semiconductor devices that are almost exponentially smaller faster and more efficient than their immediate predecessors Theory of Modern Electronic Semiconductor Devices endeavors to provide an up to date extended discussion of the most important emerging devices and trends in semiconductor technology setting the pace for the next generation of the discipline's literature Kevin Brennan and April Brown focus on three increasingly important areas telecommunications quantum structures and challenges and alternatives to CMOS technology Specifically the text examines the behavior of heterostructure devices for communications systems quantum phenomena that appear in miniaturized structures and new nanoelectronic device types that exploit these effects the challenges faced by continued miniaturization of CMOS devices and futuristic alternatives Device structures on the commercial and research levels analyzed in detail include Heterostructure field effect transistors Bipolar and CMOS transistors Resonant tunneling diodes Real space transfer transistors Quantum dot cellular automata Single electron transistors The book contains many homework exercises at the end of each chapter and a solution manual can be obtained for instructors Emphasizing the development of new technology Theory of Modern Electronic Semiconductor Devices is an ideal companion to electrical and computer engineering graduate level courses and an essential reference for semiconductor device engineers

Electronics Theory and Applications S. L. Kakani, 2005 This Book Is Designed To Meet The Requirements Of Currently Revised Ugc Syllabi Of Electronics Followed Almost By All Indian And Other Universities For B Sc Pass And B Sc Honours Students The Book Would Also Serve As A Comprehensive Text For B E Amie And Diploma Students The Book Presents An Exhaustive Exposition Of The Field With Latest Developments A Systematic Approach Is Followed Throughout The Book And The Various Principles Theory And Applications Are Explained In A Simple Easy To Understand Manner In Twenty Chapters The Book Deals With Semi Conductors And Devices Rectifiers Voltage Regulations Switching Devices Bjt Jfet Mosfet Op Amps Triac Diac Ujt Digital Circuits Scr Solar Cells Photo Transistor Cro Television Ionosphere Reader Lasers Holography Optical Fibres Computers Quantum Dots Spinotrics Mems Etc The Book Includes Several Solved Examples Throughout The Text To Illustrate The Concepts And Applications And Help In An Easier Understanding Of The Subject Review Questions And Problems Have Been Included For Easy Understanding Of The Subject Objective Type Questions Short Question Answers True False And Fill In Blank Questions Throughout The Text Will Be Highly Useful To All And Those Preparing For Various Competitive Entrance Examinations

Fundamentals of the Physics of Solids Jenő Sólyom, 2008-11-18 The reader is holding the second volume of a three volume textbook on solid state physics This book is the outgrowth of the courses I have taught for many years at Eötvös University Budapest for undergraduate and graduate students under the titles Solid State

Physics and Modern Solid State Physics The main motivation for the publication of my lecture notes as a book was that none of the truly numerous textbooks covered all those areas that I felt should be included in a multi semester course Especially if the course strives to present solid state physics in a uni ed structure and aims at d cussing not only classic chapters of the subject matter but also in more or less detail problems that are of great interest for today s researcher as well Besides the book presents a much larger material than what can be covered in a two or three semester course In the rst part of the rst volume the analysis of crystal symmetries and structure goes into details that certainly cannot be included in a usual course on solid state physics The same applies among others to the discussion of the methods used in the determination of band structure the properties of Fermi liquids and non Fermi liquids and the theory of unconventional superconductors in the present and third volumes These parts can be assigned as supplementary reading for interested students or can be discussed in advanced courses

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 aneed 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 p perturbation has beenincluded 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 thephenomena are also indicated

Transport of

Information-Carriers in Semiconductors and Nanodevices El-Saba, Muhammad,2017-03-31 Rapid developments in technology have led to enhanced electronic systems and applications When utilized correctly these can have significant impacts on communication and computer systems Transport of Information Carriers in Semiconductors and Nanodevices is an innovative source of academic material on transport modelling in semiconductor material and nanoscale devices Including a range of perspectives on relevant topics such as charge carriers semiclassical transport theory and organic semiconductors this is an ideal publication for engineers researchers academics professionals and practitioners interested in emerging developments on transport equations that govern information carriers

Physical Models of Semiconductor Quantum Devices Ying Fu,2013-09-30

Semiconductor Macroatoms Fausto Rossi,2005 This book discusses the basic physics of semiconductor macroatoms at the nanoscale as well as their potential application as building blocks for the realization of new generation quantum devices It provides a review on state of the art fabrication and characterization of semiconductor

quantum dots aimed at implementing single electron exciton devices for quantum information processing and communication After an introductory chapter on the fundamentals of quantum dots a number of more specialized review articles presents a comprehensive picture of this rapidly developing field specifically including strongly multidisciplinary topics such as state of the art nanofabrication and optical characterization fully microscopic theoretical modeling of nontrivial many body processes as well as design and optimization of novel quantum device architectures Sample Chapter s *Advances in Electronics and Electron Physics* ,1995-02-06 *Advances in Electronics and Electron Physics* *Scientific and Technical Aerospace Reports* ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Quantum Physics of Semiconductor Materials and Devices* Debdeep Jena,2022 Aimed at upper level undergraduate students and graduate students in Electrical Engineering Physics Applied Physics Materials Science and Engineering this textbook covers the quantum physics of semiconductors including their practical applications in various areas and their future potential

Topics In Nanoscience - Part I: Basic Views, Complex Nanosystems: Typical Results And Future Wolfram Schommers,2021-12-17 With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into existence at this level The book is

organized in this respect **Topics In Nanoscience (In 2 Parts)** Wolfram Schommers, 2021-12-17 With the development of the scanning tunneling microscope nanoscience became an important discipline Single atoms could be manipulated in a controlled manner and it became possible to change matter at its ultimate level it is the level on which the properties of matter emerge This possibility enables to construct and to produce devices materials etc with very small sizes and completely new properties That opens up new perspectives for technology and is in particular relevant in connection with nano engineering Nanosystems are unimaginably small and very fast No doubt this is an important characteristic But there is another feature possibly more relevant in connection with nanoscience and nanotechnology The essential point here is that we work at the ultimate level This is the smallest level at which the properties of our world emerge at which functional matter can exist In particular at this level biological individuality comes into existence This situation can be expressed in absolute terms This is not only the strongest material ever made this is the strongest material it will ever be possible to make D Ratner and M Ratner Nanotechnology and Homeland Security This is a very general statement All aspects of matter are concerned here Through the variation of the composition various forms of matter emerge with different items Nanosystems are usually small but they offer nevertheless the possibility to vary the structure of atomic molecular ensembles creating a diversity of new material specific properties A large variety of experimental possibilities come into play and flexible theoretical tools are needed at the basic level This is reflected in the different disciplines In nanoscience and nanotechnology we have various directions Materials science functional nanomaterials nanoparticles food chemistry medicine with brain research quantum and molecular computing bioinformatics magnetic nanostructures nano optics nano electronics etc The properties of matter which are involved within these nanodisciplines are ultimate in character i e their characteristic properties come into existence at this level The book is organized in this respect **Essentials of Semiconductor Physics** W. Tom Wenckebach, 1999-11-05 Provides a modern introduction to semiconductor physics presenting the basic information necessary to understand semiconductors along with some of the latest theories and developments Based on the author's undergraduate course this book bridges the gap between basic subjects such as quantum mechanics and Maxwell's equations and the fundamental processes determining the behaviour of semiconductors Following a quantum mechanics approach this text is predominantly aimed at scientists rather than engineers and forms the basis for the understanding of modern mesoscopic physics in semiconductors and quantum devices like resonant tunneling diodes Rather than attempting to comprehensively cover all aspects of semiconductor physics this text aims to cover the most important and interesting aspects of this subject to scientists Starting with the development of semiconductor physics from basic quantum mechanics the text moves on to cover band structure and effective mass theory before covering electron phonon coupling and charge transport It concludes with a chapter on optical transitions Students will need some knowledge of quantum mechanics and solid state although this is covered to some extent in the book **FEATURES** Concise introduction to the basics of semiconductor physics

Bridges the gap between fundamental subjects such as quantum mechanics and Maxwell's equations and the processes determining the behaviour of semiconductors Describes semiconductor theory from a full quantum mechanical approach An accessible introduction avoiding reliance on group theory CONTENTS Preface Notation Conventions Introduction Electrons nuclei and Hamiltonians Band Structure The k p Approximation Effective Mass Theory The Crystal Lattice Electron phonon Coupling Charge Transport Optical Transitions Band Electrons in an Optical Field Appendix A The Hydrogen Atom Appendix B The Harmonic Oscillator Appendix C Perturbation Theory Appendix D Tensors in Cubic Crystals Appendix E The Classical Limit Appendix F Some Fourier Transforms Appendix G Exercises Bibliography

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