

NANOSCIENCE
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Mesoscopic Physics and Electronics



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Mesoscopic Physics And Electronics

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Mesoscopic Physics and Electronics Tsuneya Ando, Yasuhiko Arakawa, Kazuhito Furuya, Susumu Komiyama, Hisao Nakashima, 2012-12-06 Semiconductor technology has developed considerably during the past several decades. The exponential growth in microelectronic processing power has been achieved by a constant scaling down of integrated circuits. Smaller feature sizes result in increased functional density, faster speed, and lower costs. One key ingredient of the LSI technology is the development of the lithography and microfabrication. The current minimum feature size is already as small as 0.2 μm , beyond the limit imposed by the wavelength of visible light and rapidly approaching fundamental limits. The next generation of devices is highly likely to show unexpected properties due to quantum effects and fluctuations. The device which plays an important role in LSIs is MOSFETs, metal oxide semiconductor field effect transistors. In MOSFETs, an inversion layer is formed at the interface of silicon and its insulating oxide. The inversion layer provides a unique two-dimensional 2D system in which the electron concentration is controlled almost freely over a very wide range. Physics of such 2D systems was born in the mid 1960s together with the development of MOSFETs. The integer quantum Hall effect was first discovered in this system.

Mesoscopic Physics and Electronics Tsuneya Ando, 1995

Mesoscopic Electronics in Solid State Nanostructures Thomas Heinzl, 2008-07-11 This text treats electronic transport in the regime where conventional textbook models are no longer applicable, including the effect of electronic phase coherence, energy quantization, and single electron charging. This second edition is completely updated and expanded and now comprises new chapters on spin electronics and quantum information processing, transport in inhomogeneous magnetic fields, organic molecular electronics, and applications of field effect transistors. The book also provides an overview of semiconductor processing technologies and experimental techniques. With a number of examples and problems with solutions, this is an ideal introduction for students and beginning researchers in the field. This book is a useful tool too for the experienced researcher to get a summary of recent developments in solid state nanostructures. I applaud the author for a marvellous contribution to the scientific community of mesoscopic electronics. Prof. K. Ensslin, Solid State Physics Laboratory, ETH Zurich.

Introduction to Mesoscopic Physics Yoseph Imry, 2002 This new edition of this superb text provides an introduction to this exciting growth area in physics. It will make an ideal text for those studying mesoscopic physics, electronic devices, semiconductor devices, and condensed matter physics.

Electronic Transport in Mesoscopic Systems Supriyo Datta, 1997-05-15 A thorough account of the theory of electronic transport in semiconductor nanostructures.

Mesoscopic physics and electronics, 1995

Mesoscopic Physics of Electrons and Photons Eric Akkermans, Gilles Montambaux, 2007-05-28 Quantum mesoscopic physics covers a whole class of interference effects related to the propagation of waves in complex and random media. These effects are ubiquitous in physics, from the behaviour of electrons in metals and semiconductors to the propagation of electromagnetic waves in suspensions such as colloids and quantum systems like cold

atomic gases A solid introduction to quantum mesoscopic physics this book is a modern account of the problem of coherent wave propagation in random media It provides a unified account of the basic theoretical tools and methods highlighting the common aspects of the various optical and electronic phenomena involved and presenting a large number of experimental results With over 200 figures and exercises throughout the book was originally published in 2007 and is ideal for graduate students in physics electrical engineering applied physics acoustics and astrophysics It will also be an interesting reference for researchers

Carbon Nanotube Electronics Ali Javey, Jing Kong, 2009-04-21 This book provides a complete overview of the field of carbon nanotube electronics It covers materials and physical properties synthesis and fabrication processes devices and circuits modeling and finally novel applications of nanotube based electronics The book introduces fundamental device physics and circuit concepts of 1 D electronics At the same time it provides specific examples of the state of the art nanotube devices

Electronic Structure of Clusters, 1998-04-10 Advances in Quantum Chemistry publishes surveys of current developments in the rapidly developing field of quantum chemistry a field that falls between the historically established areas of mathematics physics chemistry and biology With invited reviews written by leading international researchers each presenting new results this quality serial provides a single vehicle for following progress in this interdisciplinary area

Introducing Molecular Electronics Gianaurelio Cuniberti, Giorgos Fagas, Klaus Richter, 2006-05-21 Klaus von Klitzing Max Planck Institut fur Festkorperforschung Heisenbergstra e 1 70569 Stuttgart Germany Already many Cassandras have prematurely announced the end of the silicon roadmap and yet conventional semiconductor based transistors have been continuously shrinking at a pace which has brought us to nowadays cheap and powerful

microelectronics However it is clear that the traditional scaling laws cannot be applied if unwanted tunnel phenomena or ballistic transport dominate the device properties It is generally expected that a combination of silicon CMOS devices with molecular structure will dominate the field of nanoelectronics in 20 years The visionary ideas of atomic or molecular scale electronics already date back thirty years but only recently advanced nanotechnology including e g scanning tunneling methods and mechanically controllable break junctions have enabled to make distinct progress in this direction On the level of fundamental research state of the art techniques allow to manipulate image and probe charge transport through uni-

molecular systems in an increasingly controlled way Hence molecular electronics is reaching a stage of trustable and reproducible experiments This has led to a variety of physical and chemical phenomena recently observed for charge currents owing through molecular junctions posing new challenges to theory As a result a still increasing number of open questions determines the future agenda in this field

Nanomaterials A.S Edelstein, R.C Cammarata, 1998-01-01 Nanomaterials Synthesis Properties and Applications provides a comprehensive introduction to nanomaterials from how to make them to example properties processing techniques and applications Contributions by leading international researchers and teachers in academic government and industrial institutions in nanomaterials provide an accessible guide for newcomers to the field The

coverage ranges from isolated clusters and small particles to nanostructured materials multilayers and nanoelectronics The book contains a wealth of references for further reading Individual chapters deal with relevant aspects of the underlying physics materials science and physical chemistry Single-Electron Tunneling and Mesoscopic Devices Hans Koch,K.v. Klitzing,Heinz Lübbig,2012-12-06 Single electron tunneling SET and related phenomena have recently come to be considered as hot topics This also became apparent when we organized the 4th International Conference on Superconducting and Quantum Effect Devices and Their Applications SQUID 91 which was held June 18 21 1991 in Berlin Germany Impressed by the number of contributions dedicated to the new physics of ultrasmall devices we deemed it appropriate to devote this volume of the Springer Series in Electronics and Photonics to these specialized proceedings The other contributions presented at SQUID 91 which are more conventional in character but nevertheless contain excitingly innovative results are published separately as Volume 64 of the series Springer Proceedings in Physics At first glance it seems strange that a conference abbreviated SQUID 91 should attract so many papers on non superconducting devices and in fact the first SQUID XX conferences dealt exclusively with the physics and technology of Josephson junctions SQUIDs and other superconducting devices and their applications However many concepts developed for superconducting devices like tunneling flux quantization and flux charge conjugation appeared to be suitable for ultrasmall non superconducting structures as well and many researchers in the field of superconducting devices extended their activities accordingly Thus the extension of the conference programme evolved quite informally Meanwhile the meetings established themselves as well known conference series tradition ally appreciated by the SQUID community for its balanced mixture of physics and technology review and preview SQUID XX became a kind of a trademark

Comprehensive Semiconductor Science and Technology
,2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the

semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts **Frontiers in Nanoscale Science of Micron/Submicron Devices** A.-P. Jauho, Eugenia V. Buzaneva, 1996-10-31 Nanoscale Science whose birth and further growth and development has been driven by the needs of the microelectronics industry on one hand and by the sheer human curiosity on the other hand has given researchers an unprecedented capability to design and construct devices whose function ality is based on quantum and mesoscopic effects A necessary step in this process has been the development of reliable fabrication techniques in the nanometer scale two dimensional systems quantum wires and dots and Coulomb blockade structures with almost ideal properties can nowadays be fabricated and subjected to experimental studies How does one fabricate micro nanostructures of low dimensionality How does one perform a nanoscale characterization of these structures What are the fundamental properties typical to the structures Which new physical processes in nanostructures need to be understood What new physical processes may allow us to create new nanostructures An improved understanding of these topics is necessary for creation of new concepts for future electronic and optoelectronic devices and for characterizing device structures based on those concepts **Electronic Quantum Transport in Mesoscopic Semiconductor Structures** Thomas Ihn, 2004-09-09

The physics of semiconductors has seen an enormous evolution within the last fty years Countless achievements have been made in scienti c research and device applications have revolutionized everyday life We have learned how to customize materials in order to tailor their optical as well as electronic properties The on ing trend toward device miniaturization has been the driving force on the appli tion side and it has fertilized fundamental research Nowadays advanced processing techniques allow the fabrication of sub micron semiconductor structures in many university research laboratories At the same time experiments down to millikelvin temperatures allow researchers to anticipate the observation of quantum phenomena so far hidden at room temperature by the large thermal energy and strong dephasing The eld of mesoscopic physics deals with systems under experimental con tions where several quantum length scales for electrons such as system size and phase coherence length or phase coherence length and elastic mean free path are compa ble Intense research over the last twenty years has revealed an enormous richness of quantum effects in mesoscopic semiconductor physics which is typically charact ized by an interplay of quantum interference and many body interactions The most famous phenomena are probably the integer and fractional quantum Hall effects the quantization of conductance through a quantum point contact the Aharonov Bohm effect and single electron charging of quantum dots **Condensed Matter Theories** F. B. Malik, 2001

Mesoscopic Physics Meets Quantum Engineering Sergey N Shevchenko, 2019-07-16 Quantum mechanics was initially constructed to describe objects on atomic and subatomic scales However in the last decades quantum mechanics has been revisited and its use extended to the study and description of macroscopic distinct states This is accomplished by modeling basic objects of mesoscopic physics such as superconducting quantum circuits and low dimensional structures

derived from a two dimensional electronic gas In recent years these devices support the study of fundamental systems such as a two level quantum system or qubit as an object for manipulations and applications This book will provide an introduction to quantum computation and quantum information based on quantum physics solid state theory and theory of computing We will become familiar with this important field and explore how it is inseparably linked to basic notions of physics such as superposition entanglement and quantum dynamics Then we will consider superconducting and mesoscopic systems as well as a series of phenomena where important are the spectra quantization interference and charge discreteness This book derives its content from a lecture course designed for graduate students and postdocs who are acquainted with quantum mechanics and statistical physics In particular it was developed together with the lecture series taught to 5th year students of the Department of Physics and Technology in V N Karazin Kharkiv National University Japanese Journal of Applied Physics ,1995 Fullerenes and Photonics ,1996 **Condensed Matter Theories** Susana Hernández,John W. Clark,2001

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