

NANO SCIENCE
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Mesoscopic Physics and Electronics



Springer

Mesoscopic Physics And Electronics

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Demeester**



Mesoscopic Physics And Electronics:

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.

Introduction to Mesoscopic Physics Yoseph Imry, 1997 Mesoscopic physics refers to the physics of structures larger than a nanometer (one billionth of a meter) but smaller than a micrometer (one millionth of a meter). This book can be used as the main text in a course on mesoscopic physics or as a supplementary text in electronic devices, semiconductor devices and condensed matter physics courses.

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Thomas Heinzl, 2008-07-11 This text treats electronic transport in the regime where conventional textbook models are no longer applicable, including the effect of electronic phase coherence, energy quantization and single electron charging.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.

Mesoscopic Physics and Electronics Tsuneya Ando, 1995

Electronic Transport in Mesoscopic Systems Supriyo Datta, 1997-05-15 Advances in semiconductor technology have made possible the fabrication of structures whose dimensions are much smaller than the mean free path of an electron. This book gives a thorough account of the theory of electronic transport in such mesoscopic systems. After an initial chapter covering fundamental concepts, the transmission function formalism is presented and used to describe three key topics in mesoscopic physics: the quantum Hall effect, localisation and double barrier tunnelling. Other sections include a discussion of optical

analogies to mesoscopic phenomena and the book concludes with a description of the non equilibrium Green's function formalism and its relation to the transmission formalism Complete with problems and solutions the book will be of great interest to graduate students of mesoscopic physics and nanoelectronic device engineering as well as to established researchers in these fields **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

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 in 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 *Handbook of Nanoscience, Engineering, and Technology* William A. Goddard III, Donald Brenner, Sergey Edward Lyshevski, Gerald J Iafrate, 2007-05-03 The ability to study and manipulate matter at the nanoscale is the defining feature of 21st century science The first edition of the standard setting Handbook of Nanoscience Engineering and Technology saw the field through its infancy Reassembling the preeminent team of leading scientists and researchers from all areas of nanoscience and nanotechnology **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

Vortex Electronics and SQUIDs Takeshi Kobayashi, Hisao Hayakawa, Masayoshi Tonouchi, 2003-12-08 Understanding the nature of vortices in high T_c superconductors is a crucial subject for research on superconductive electronics especially for superconducting interference devices SQUIDs it is also a fundamental problem in condensed matter physics Recent technological progress in methods for both direct and indirect observation of vortices e g scanning SQUID terahertz imaging and microwave excitation has led to new insights into vortex physics the dynamic behavior of vortices in junctions and related questions of noise This book presents the current status of research activity and provides new information on the applications of SQUIDs including magnetocardiography immunoassays and laser SQUID microscopes all of which are close to being commercially available

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

Organic Electroluminescence Qisheng Zhang, Le Zhang, 2025-08-19 Unique reference on the fundamentals applications and latest research in electroluminescence of organic molecules Organic Electroluminescence provides a comprehensive overview of organic electroluminescent materials from their structure property relationships to the outlook of improved device performance Divided into three parts the first section of the book covers fundamental aspects of OLEDs such as history structures properties and operating and aging mechanisms The second section provides quantum chemical and experimental insights into correlations between device performance material characteristics molecular physical parameters and molecular structure The last section is devoted to improving device performance in real world applications using molecular and device simulations Featuring contributions from experts from around the world Organic Electroluminescence discusses sample topics including Fundamental concepts in the fields of display organic electronics molecular photochemistry and quantum chemistry Device fabrication characterization and simulation techniques Physical and chemical processes in OLEDs including charge injection and transport exciton generation and decay reversible dipole reorientation and chemical reactions Physical and chemical properties of organic semiconductors in solutions and thin films including photoluminescence quantum yield excited state lifetime and redox potential Single molecule and condensed matter simulations including vertical transition nonradiative decay spin orbital and spin phonon

coupling bond dissociation and charge transfer Organic Electroluminescence delivers advanced information for professionals seeking a thorough reference on the subject and for students learning about OLEDs

Condensed Matter Theories Susana Hernandez, John W. Clark, Jr., 2002-01-25 Drawn from the 24th International Workshop on Condensed Matter Theories Buenos Aires Sep 2000 these 45 papers while centered on the concepts and techniques of condensed matter physics also address broad issues of common concern for theorists who apply advanced many particle methods in other areas of physics Five primary topics are covered by the contributions quantum liquids boson condensates strongly correlated electron systems superconductivity and superfluidity and phase transitions Some of examples of specific questions addressed include shot noise of mesoscopic quantum systems heat transport in superlattices transitions from non colinear to conlinear structures in a magnetic multilayer model order disorder transitions in a vortex lattice perturbation theory in the one phase region of an electron ion system and nonlinear dynamics in metal clusters c Book News Inc

Introducing Molecular Electronics Gianaurelio Cuniberti, Giorgos Fagas, Klaus Richter, 2006-05-21 Klaus von Klitzing Max Planck Institut fur Festk orperforschung 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 eld 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 f damentalresearch stateofthearttechniquesallowtomanipulate imageand probecharge transportthroughuni molecularsystems inan increasinglyc trolled way Hence molecular electronics is reaching a stage of trustable and reproducible experiments This has lead 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 n ber of open questions determines the future agenda in this eld

Nanodevices for Photonics and Electronics Paolo Bettotti, 2015-12-23 Photonics and electronics are endlessly converging into a single technology by exploiting the possibilities created by nanostructuring of materials and devices It is expected that next generation optoelectronic devices will show great improvements in terms of performance flexibility and energy consumption the main limits of nanoelectronics will

Low Dimensional Structures Prepared by Epitaxial Growth or Regrowth on Patterned Substrates K. Eberl, Pierre M. Petroff, Piet Demeester, 2012-12-06 Proceedings of the NATO Advanced Research Workshop Ringberg in Rottach Egern Germany February 20 24 1995

Molecular Electronics: An Introduction To Theory And Experiment Elke Scheer, Juan Carlos Cuevas, 2010-06-23 This book provides a comprehensive overview of the rapidly developing field of

molecular electronics It focuses on our present understanding of the electrical conduction in single molecule circuits and provides a thorough introduction to the experimental techniques and theoretical concepts It will also constitute as the first textbook like introduction to both the experiment and theory of electronic transport through single atoms and molecules In this sense this publication will prove invaluable to both researchers and students interested in the field of nanoelectronics and nanoscience in general Molecular Electronics is self contained and unified in its presentation It may be used as a textbook on nanoelectronics by graduate students and advanced undergraduates studying physics and chemistry In addition included are previously unpublished material that will help researchers gain a deeper understanding into the basic concepts involved in the field of molecular electronics

Introduction to Nanoscale Science and Technology

Massimiliano Ventra, Stephane Evoy, James R. Heflin, 2006-04-11 Nanoscale science and technology is a young promising field that encompasses a wide range of disciplines including physics chemistry biology electrical engineering chemical engineering and materials science With rapid advances in areas such as molecular electronics synthetic biomolecular motors DNA based self assembly and manipulation of individual atoms nanotechnology has captured the attention and imagination of researchers and the general public Introduction to Nanoscale Science and Technology provides a broad and thorough introduction that is aimed specifically at undergraduate seniors and early graduate students in all of the disciplines enumerated above It will also be of value to academic industrial and government researchers interested in a primer in the field The book consists of twenty three chapters arranged in seven sections All chapters have been written by experts from each respective field Exercises and general references are provided at the end of each chapter to encourage students to expand on the topics discussed in the book

Electronic Transport Theories Navinder Singh, 2016-11-17 Maintaining a practical perspective Electronic Transport Theories From Weakly to Strongly Correlated Materials provides an integrative overview and comprehensive coverage of electronic transport with pedagogy in view It covers traditional theories such as the Boltzmann transport equation and the Kubo formula along with recent theories of transport in strongly correlated materials The understood case of electronic transport in metals is treated first and then transport issues in strange metals are reviewed Topics discussed are the Drude Lorentz theory the traditional Bloch Boltzmann theory and the Gr neisen formula the Nyquist theorem and its formulation by Callen and Welton the Kubo formalism the Langevin equation approach the W lfle G tze memory function formalism the Kohn Luttinger theory of transport and some recent theories dealing with strange metals This book is an invaluable resource for undergraduate students post graduate students and researchers with a background in quantum mechanics statistical mechanics and mathematical methods

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