

Nanostructured Systems

Volume Editor

Mark Reed

SEMICONDUCTORS AND SEMIMETALS VOLUME 35

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Semiconductors And Semimetals Volume 35

Nanostructured Systems

Eckehard Schöll



Semiconductors And Semimetals Volume 35 Nanostructured Systems:

Semiconductors and Semimetals, 1992-12-03 Semiconductors and Semimetals **Nanostructured Systems**, 1992-04-08 This is the first available volume to consolidate prominent topics in the emerging field of nanostructured systems Recent technological advancements have led to a new era of nanostructure physics allowing for the fabrication of nanostructures whose behavior is dominated by quantum interference effects This new capability has enthused the experimentalist and theorist alike Innumerable possibilities have now opened up for physical exploration and device technology on the nanoscale This book with contributions from five pioneering researchers will allow the expert and novice alike to explore a fascinating new field Provides a state of the art review of quantum scale artificially nanostructured electronic systems Includes contributions by world known experts in the field Opens the field to the non expert with a concise introduction Features discussions of Low dimensional condensed matter physics Properties of nanostructured ultrasmall electronic systems Mesoscopic physics and quantum transport Physics of 2D electronic systems *Semiconductors and Semimetals* Robert K. Willardson, 2004 **Transport in Nanostructures** David Ferry, Stephen Marshall Goodnick, 1999-10-28 A comprehensive detailed description of the properties and behaviour of mesoscopic devices

Physics of Low-Dimensional Semiconductor Structures Paul N. Butcher, Norman H. March, Mario P. Tosi, 2013-11-11 Presenting the latest advances in artificial structures this volume discusses in depth the structure and electron transport mechanisms of quantum wells superlattices quantum wires and quantum dots It will serve as an invaluable reference and review for researchers and graduate students in solid state physics materials science and electrical and electronic engineering *Low-dimensional Semiconductors* M. J. Kelly, 1995-11-23 This text is a first attempt to pull together the whole of semiconductor science and technology since 1970 in so far as semiconductor multilayers are concerned Material technology physics and device issues are described with approximately equal emphasis and form a single coherent point of view The subject matter is the concern of over half of today's active semiconductor scientists and technologists the remainder working on bulk semiconductors and devices It is now routine to design and the prepare semiconductor multilayers at a time with independent control over the dropping and composition in each layer In turn these multilayers can be patterned with features that as a small as a few atomic layers in lateral extent The resulting structures open up many new areas of exciting solid state and quantum physics They have also led to whole new generations of electronic and optoelectronic devices whose superior performance relates back to the multilayer structures The principles established in the field have several decades to go advancing towards the ultimate of materials engineering the design and preparation of solids atom by atom The book should appeal equally to physicists electronic engineers and materials scientists Electronic Transport in Mesoscopic Systems Supriyo Datta, 1997-05-15 A thorough account of the theory of electronic transport in semiconductor nanostructures A Quantum Approach to Condensed Matter Physics Philip L. Taylor, Olle Heinonen, 2002-02-28 This

textbook is an accessible introduction to the theory underlying the many fascinating properties of solids Assuming only an elementary knowledge of quantum mechanics it describes the methods by which one can perform calculations and make predictions of some of the many complex phenomena that occur in solids and quantum liquids The emphasis is on reaching important results by direct and intuitive methods and avoiding unnecessary mathematical complexity Designed as a self contained text that starts at an elementary level and proceeds to more advanced topics this book is aimed primarily at advanced undergraduate and graduate students in physics materials science and electrical engineering Problem sets are included at the end of each chapter with solutions available to lecturers The coverage of some of fascinating developments in condensed matter physics will also appeal to experienced scientists in industry and academia working on electrical properties of materials *Molecular Wires* Luisa de Cola,2005-08-25 With contributions by numerous experts **Quantum**

Dynamics of Submicron Structures Hilda A. Cerdeira,B. Kramer,Gerd Schön,2012-12-06 Techniques for the preparation of condensed matter systems have advanced considerably in the last decade principally due to the developments in microfabrication technologies The widespread availability of millikelvin temperature facilities also led to the discovery of a large number of new quantum phenomena Simultaneously the quantum theory of small condensed matter systems has matured allowing quantitative predictions The effects discussed in Quantum Dynamics of Submicron Structures include typical quantum interference phenomena such as the Aharonov Bohm like oscillations of the magnetoresistance of thin metallic cylinders and rings transport through chaotic billiards and such quantization effects as the integer and fractional quantum Hall effect and the quantization of the conductance of point contacts in integer multiples of the conductance quantum Transport properties and tunnelling processes in various types of normal metal and superconductor tunnelling systems are treated The statistical properties of the quantum states of electrons in spatially inhomogeneous systems such as a random inhomogeneous magnetic field are investigated Interacting systems like the Luttinger liquid or electrons in a quantum dot are also considered Reviews are given of quantum blockade mechanisms for electrons that tunnel through small junctions like the Coulomb blockade and spin blockade the influence of dissipative coupling of charge carriers to an environment and Andreev scattering Coulomb interactions and quantization effects in transport through quantum dots and in double well potentials as well as quantum effects in the motion of vortices as in the Aharonov Casher effect are discussed The status of the theory of the metal insulator and superconductor insulator phase transitions in ordered and disordered granular systems are reviewed as examples in which such quantum effects are of great importance **Handbook of**

Nanostructured Materials and Nanotechnology, Five-Volume Set Hari Singh Nalwa,1999-10-29 Nanostructured materials is one of the hottest and fastest growing areas in today s materials science field along with the related field of solid state physics Nanostructured materials and their based technologies have opened up exciting new possibilities for future applications in a number of areas including aerospace automotive x ray technology batteries sensors color imaging printing

computer chips medical implants pharmacy and cosmetics The ability to change properties on the atomic level promises a revolution in many realms of science and technology Thus this book details the high level of activity and significant findings are available for those involved in research and development in the field It also covers industrial findings and corporate support This five volume set summarizes fundamentals of nano science in a comprehensive way The contributors enlisted by the editor are at elite institutions worldwide Key Features Provides comprehensive coverage of the dominant technology of the 21st century Written by 127 authors from 16 countries making this truly international First and only reference to cover all aspects of nanostructured materials and nanotechnology

FUNDAMENTALS OF PHYSICS - Volume II José L.

Mora-Lopez,2009-11-10 Fundamentals of Physics is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias The Theme on Fundamentals of Physics provides an overview of the modern areas in physics most of which had been crystallized in the 20th century is given The Theme on Fundamentals of Physics deals in three volumes and cover several topics with a myriad of issues of great relevance to our world such as Historical Review of Elementary Concepts in Physics Laws of Physical Systems Particles and Fields Quantum Systems Order and Disorder in Nature Topical Review Nuclear Processes which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers NGOs and GOs

Similarity in Diversity D. L.

Morabito,Shigeji Fujita,Y. Okamura,2003 This volume brings together interdisciplinary topics in condensed matter theory and related disciplines with an emphasis on the common concerns of mostly theorists applying advanced many particle methods in diverse areas solid state and low temperature physics atomic sub atomic and statistical physics engineering sciences keeping a sharp focus on theoretical developments which cross borders between subfields of condensed matter physics and which provide new approaches to outstanding problems The book records the fascinating variety of new results associated with the idea of similarity in diversity In perusing this volume the reader will be stimulated to discern threads of similarity in the great diversity of physical phenomena and theoretical models proposed to explain them and indeed there are threads that can be glimpsed in the table of contents and ramifications of these threads as one reads through the articles One conclusion is clear the search for similarity in diversity is a powerful approach to interdisciplinary science

Effective

Electron Mass in Low-Dimensional Semiconductors Sitangshu Bhattacharya,Kamakhya Prasad Ghatak,2012-10-06 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

Nanostructured Materials Vladimir M. Shalaev,1997 This book examines the physics chemistry and structure property relationships of nanomaterials as well as nanoscale electronics and photonics devices It also discusses metal and semiconductor clusters composites thin films and molecular engineering

Semiconductor Optics Claus F. Klingshirn,1997-02-03 Semiconductor Optics provides an introduction to and an overview of semiconductor optics from the IR through the visible to the UV including linear and nonlinear optical properties dynamics magneto and electrooptics high excitation effects some applications experimental techniques and group theory Mathematics is kept as elementary as possible enough for an intuitive understanding of the experimental results and techniques treated The subjects covered extend from physics to materials science and optoelectronics

Metrology and Fundamental Constants International School of Physics "Enrico Fermi",2007-10-26 This volume can be justified by the following three facts the need to provide from time to time a co ordinated set of lectures which present the relevant progress in Metrology the increasing intertwining between Fundamental Physics and the practice of Metrological Measurements and third the flurry of new and unexpected discoveries in this field with a correlated series of Nobel Prizes bestowed to individuals working in Fundamental Constants research and novel experimental methods One of the most fascinating and exciting characteristics of metrology is its intimate relationship between fundamental physics and the leading edge of technology which is needed to perform advanced and challenging experiments and measurements as well as the determination of the values and interrelations between the Fundamental Constants In some cases such as the caesium fountains clocks or the optical frequency standards the definition of the value of a quantity is in the laboratory in the region of 10^{-16} and experiments are under way to reach 10^{-18} Many of these results and the avenues leading to further advances are discussed in this volume along a major step in metrology expected in the near future which could change the old definition of the kilogram still based on a mechanical artefact toward a new definition resting on a fixed value of a fundamental constant

Transport in Nanostructures David K. Ferry,Stephen M. Goodnick,Jonathan Bird,2009-08-20 The advent of semiconductor structures whose characteristic dimensions are smaller

than the mean free path of carriers has led to the development of novel devices and advances in theoretical understanding of mesoscopic systems or nanostructures This book has been thoroughly revised and provides a much needed update on the very latest experimental research into mesoscopic devices and develops a detailed theoretical framework for understanding their behaviour Beginning with the key observable phenomena in nanostructures the authors describe quantum confined systems transmission in nanostructures quantum dots and single electron phenomena Separate chapters are devoted to interference in diffusive transport temperature decay of fluctuations and non equilibrium transport and nanodevices Throughout the book the authors interweave experimental results with the appropriate theoretical formalism The book will be of great interest to graduate students taking courses in mesoscopic physics or nanoelectronics and researchers working on semiconductor nanostructures

Foundations of Solid State Physics Siegmur Roth, David Carroll, 2019-04-02 An essential guide to solid state physics through the lens of dimensionality and symmetry Foundations of Solid State Physics introduces the essential topics of solid state physics as taught globally with a focus on understanding the properties of solids from the viewpoint of dimensionality and symmetry Written in a conversational manner and designed to be accessible the book contains a minimal amount of mathematics The authors noted experts on the topic offer an insightful review of the basic topics such as the static and dynamic lattice in real space the reciprocal lattice electrons in solids and transport in materials and devices The book also includes more advanced topics the quasi particle concept phonons solitons polarons excitons strong electron electron correlation light matter interactions and spin systems The authors approach makes it possible to gain a clear understanding of conducting polymers carbon nanotubes nanowires two dimensional chalcogenides perovskites and organic crystals in terms of their expressed dimension topological connectedness and quantum confinement This important guide Offers an understanding of a variety of technology relevant solid state materials in terms of their dimension topology and quantum confinement Contains end of chapter problems with different degrees of difficulty to enhance understanding Treats all classical topics of solid state physics courses plus the physics of low dimensional systems Written for students in physics material sciences and chemistry lecturers and other academics Foundations of Solid State Physics explores the basic and advanced topics of solid state physics with a unique focus on dimensionality and symmetry

Theory of Transport Properties of Semiconductor Nanostructures Eckehard Schöll, 2013-11-27 Recent advances in the fabrication of semiconductors have created almost unlimited possibilities to design structures on a nanometre scale with extraordinary electronic and optoelectronic properties The theoretical understanding of electrical transport in such nanostructures is of utmost importance for future device applications This represents a challenging issue of today's basic research since it requires advanced theoretical techniques to cope with the quantum limit of charge transport ultrafast carrier dynamics and strongly nonlinear high field effects This book which appears in the electronic materials series presents an overview of the theoretical background and recent developments in the theory of electrical transport in

semiconductor nanostructures It contains 11 chapters which are written by experts in their fields Starting with a tutorial introduction to the subject in Chapter 1 it proceeds to present different approaches to transport theory The semiclassical Boltzmann transport equation is in the centre of the next three chapters Hydrodynamic moment equations Chapter 2 Monte Carlo techniques Chapter 3 and the cellular automaton approach Chapter 4 are introduced and illustrated with applications to nanometre structures and device simulation A full quantum transport theory covering the Kubo formalism and nonequilibrium Green's functions Chapter 5 as well as the density matrix theory Chapter 6 is then presented

Semiconductors And Semimetals Volume 35 Nanostructured Systems Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Semiconductors And Semimetals Volume 35 Nanostructured Systems**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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