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Physics and Technology of Submicron Structures



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Lei Shi



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Granular Nanoelectronics David K. Ferry, John R. Barker, Carlo Jacoboni, 2013-12-14 The technological means now exists for approaching the fundamental limiting scales of solid state electronics in which a single carrier can in principle represent a single bit in an information flow In this light the prospect of chemically or biologically engineered molecular scale structures which might support information processing functions has enticed workers for many years The one common factor in all suggested molecular switches ranging from the experimentally feasible proton tunneling structure to natural systems such as the micro tubule is that each proposed structure deals with individual information carrying entities Whereas this future molecular electronics faces enormous technical challenges the same limit is already appearing in existing semiconducting quantum wires and small tunneling structures both superconducting and normal meta devices in which the motion of a single charge through the tunneling barrier can produce a sufficient voltage change to cut off further tunneling current We may compare the above situation with today's Si microelectronics where each bit is encoded as a very large number not necessarily fixed of electrons within a charge pulse The associated reservoirs and sinks of charge carriers may be profitably tapped and manipulated to provide macro currents which can be readily amplified or curtailed On the other hand modern semiconductor ULSI has progressed by adopting a linear scaling principle to the downsizing of individual semiconductor devices

Physics and Technology of Submicron Structures Österreichische Physikalische Gesellschaft, 1988-10-12 This volume presents a discussion of the latest results in the physics of low dimensional structures At the winter school major breakthroughs were reported and some of the excitement of the participants is reflected in the contributions The topics treated range from the fabrication of microstructures and the physical background of future semiconductor devices to vertical transport in nanostructures universal conductance fluctuations and the transition from two dimensional to one dimensional conduction in semiconductor structures

Science and Engineering of One- and Zero-Dimensional Semiconductors Steven P. Beaumont, Clivia M. Sotomayor Torres, 2012-12-06 This volume comprises the proceedings of the NATO Advanced Research Workshop on the Science and Engineering of 1 and 0 dimensional semiconductors held at the University of Cadiz from 29th March to 1st April 1989 under the auspices of the NATO International Scientific Exchange Program There is a wealth of scientific activity on the properties of two dimensional semiconductors arising largely from the ease with which such structures can now be grown by precision epitaxy techniques or created by inversion at the silicon silicon dioxide interface Only recently however has there burgeoned an interest in the properties of structures in which carriers are further confined with only one or in the extreme zero degrees of freedom This workshop was one of the first meetings to concentrate almost exclusively on this subject that the attendance of some forty researchers only represented the community of researchers in the field testifies to its rapid expansion which has arisen from the increasing availability of technologies for fabricating structures with small enough sub μm dimensions Part I of this

volume is a short section on important topics in nanofabrication It should not be assumed from the brevity of this section that there is little new to be said on this issue rather that to have done justice to it would have diverted attention from the main purpose of the meeting which was to highlight experimental and theoretical research on the structures themselves

Quantum Dots T. Chakraborty, 1999-11-30 This book deals with the electronic and optical properties of two low dimensional systems quantum dots and quantum antidots and is divided into two parts Part one is a self contained monograph which describes in detail the theoretical and experimental background for exploration of electronic states of the quantum confined systems Starting from the single electron picture of the system the book describes various experimental methods that provide important information on these systems Concentrating on many electron systems theoretical developments are described in detail and their experimental consequences are also discussed The field has witnessed an almost explosive growth and some of the future directions of explorations are highlighted towards the end of the monograph The subject matter is dealt with in such a way that it is both accessible to beginners and useful for expert researchers as a comprehensive review of most of the developments in the field Furthermore the book contains 37 reprinted articles which have been selected to provide a first hand picture of the overall developments in the field The early papers have been arranged to portray the developments chronologically and the more recent papers provide an overview of future direction in the research Soviet Physics, Uspekhi ,1989 Journal of Physics A ,1998 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory **International Books in Print** ,1990 **Nanostructure Physics and Fabrication** Mark A. Reed, Wiley P. Kirk, 2012-12-02 Nanostructure Physics and Fabrication contains the contributions of an interdisciplinary group of specialists in nanometer scale fabrication physics of mesoscopic systems electronic transport and materials science brought together to discuss the current status of nanometer scale electronic structures These articles provide the most current assessment of this active and growing area of interest The introductory chapter provides comments and background material for those somewhat unfamiliar with this new area of research and serves as a condensed overview and summary of the contributions that follow Most current assessment of the field Articles by experts in the field Results presented here will impact the future of microelectronics *Forthcoming Books* Rose Arny, 1989-09 Physics Briefs ,1992 *Subject Guide to Books in Print* ,1975 **The Publishers' Trade List Annual** ,1985 *Physics and Technology of Submicron Structures* Helmut Heinrich, 1988 Advances in Solid State Physics 46 Rolf Haug, 2010-11-18 This book presents written versions of selected invited lectures from the spring meeting of the Arbeitskreis Festkörperphysik of the Deutsche Physikalische Gesellschaft which was held from 27 to 31 March 2006 in Dresden Germany Many topical talks given at the numerous symposia are included Most of these were organized collaboratively by several of the divisions of the Arbeitskreis The book presents to some extent the status of the field of solid

state physics in 2006 not only in Germany but also internationally **Advances in Solid State Physics 45** Bernhard Kramer, 2010-02-12 The present volume 45 of Advances in Solid State Physics contains the written versions of selected invited lectures from the spring meeting of the Arbeitskreis Festkörperphysik of the Deutsche Physikalische Gesellschaft in the World Year of Physics 2005 the Einstein Year which was held from 4-11 March 2005 in Berlin Germany Many topical talks given at the numerous symposia are included Most of these were organized collaboratively by several of the divisions of the Arbeitskreis The book presents to some extent the status of the field of solid state physics in 2005 not only in Germany but also internationally It is nanoscience namely the physics of quantum dots and wires electrical transport optical properties spin transport in nanostructures and magnetism on the nanoscale that is of central interest to the physics community Also soft matter and biological systems are covered

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