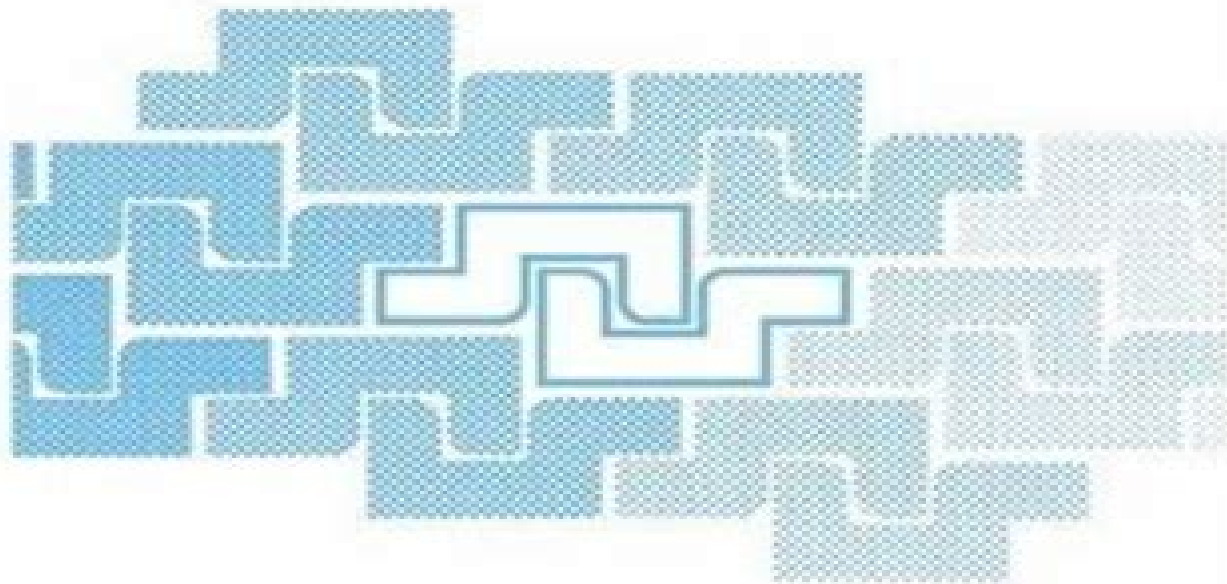




Molecular Nanowires and Other Quantum Objects

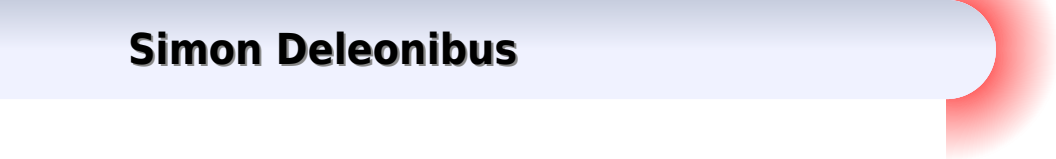
Edited by

Alexandre S. Alexandrov, Jure Demsar
and Igor K. Yanson

NATO Science Series

Molecular Nanowires And Other Quantum Objects

Simon Deleonibus



Molecular Nanowires And Other Quantum Objects:

Molecular Nanowires and Other Quantum Objects Alexandre S. Alexandrov, Jure Demsar, Igor K. Yanson, 2004-04-30
There is a growing understanding that the progress of the conventional silicon technology will reach its physical engineering and economic limits in near future. This fact however does not mean that progress in computing will slow down. What will take us beyond the silicon era are new nano technologies that are being pursued in university and corporate laboratories around the world. In particular molecular switching devices and systems that will self assemble through molecular recognition are being designed and studied. Many laboratories are now testing new types of these and other reversible switches as well as fabricating nanowires needed to connect circuit elements together. But there are still significant opportunities and demand for invention and discovery before nanoelectronics will become a reality. The actual mechanisms of transport through molecular quantum dots and nanowires are of the highest current experimental and theoretical interest. In particular there is growing evidence that both electron vibron interactions and electron-electron correlations are important. Further progress requires worldwide efforts of transdisciplinary teams of physicists, quantum chemists, material and computer scientists and engineers. *Molecular Nanowires and Other Quantum Objects* A. S. Alexandrov, Jure Demsar, Igor K. Yanson, 2004-06-02. There is a growing understanding that the progress of the conventional silicon technology will reach its physical engineering and economic limits in about a decade. What will take us beyond 2010 are new molecular and other nanotechnologies that require the efforts of transdisciplinary teams of physicists, quantum chemists, material and computer scientists and engineers. This volume represents a unique collection of interdisciplinary review and original papers by experts in molecular nanowires, carbon nanotubes, mesoscopic super and semiconductors and theorists in the field of strongly correlated electrons and phonons. Topics include molecular nanojunctions and electronics, mesoscale semiconductors and superconductors, carbon nanotubes, low dimensional conductors, polarons and strongly correlated electrons in nanoobjects, quantum theory of nanoscale and new techniques for making nano and mesoscopic sensors and detectors. [Molecular Electronics: An Introduction To Theory And Experiment \(2nd Edition\)](#) Elke Scheer, Juan Carlos Cuevas, 2017-05-19. Molecular Electronics is self contained and unified in its presentation. It can be used as a textbook on nanoelectronics by graduate students and advanced undergraduates studying physics and chemistry. In addition included in this new edition are previously unpublished material that will help researchers gain a deeper understanding into the basic concepts involved in the field of molecular electronics. *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 **Nanophysics, Nanoclusters and Nanodevices** Kimberly S. Gehar,2006

Nanotechnology is a catch all description of activities at the level of atoms and molecules that have applications in the real world A nanometre is a billionth of a metre about 1 80 000 of the diameter of a human hair or 10 times the diameter of a hydrogen atom Nanotechnology is now used in precision engineering new materials development as well as in electronics electromechanical systems as well as mainstream biomedical applications in areas such as gene therapy drug delivery and novel drug discovery techniques This book presents the latest research in this frontier field Carbon Nanotubes and Their Applications Qing Zhang,2012-04-23

This book overviews the current status of research and development activities of CNTs in nanodevices nanomaterials or nanofabrication This book presents 15 state of the art review articles that cover CNT synthesis technologies for growing highly orientated CNTs chirality pure CNTs and CNTs at a large throughput and low cost CNT assembly techniques CNT sorting and separation processes CNT functionalization engineering for more functionalities CNT fundamental properties and their practical potential electrical electronic optical mechanical chemical and biological applications Nanoscale Devices - Fundamentals and Applications Rudolf Gross,Anatolie Sidorenko,Lenar

Tagirov,2007-05-16 Over the last decade the interest in nanoscale materials and their applications in novel electronic devices have been increasing tremendously This is caused by the unique properties of nanoscale materials and the outstanding performance of nanoscale devices The fascinating and often unrivalled properties of nanoscale materials and devices opened new and sometimes unexpected fields of applications Today the widespread applications range from the detection of explosives drugs and fissionable materials to bio and infrared sensors spintronic devices data storage media magnetic read heads for computer hard disks single electron devices microwave electronic devices and many more This book contains a collection of papers giving insight into the fundamentals and applications of nanoscale devices The main focus is on the synthesis and characterization of nanoscale magnetic materials the fundamental physics and materials aspects of solid state nanostructures the development of novel device concepts and design principles for nanoscale devices as well as on applications in electronics with special emphasis on defence against the threat of terrorism *Electronic Devices*

Architectures for the NANO-CMOS Era Simon Deleonibus,2019-05-08 In this book internationally recognized researchers give a state of the art overview of the electronic device architectures required for the nano CMOS era and beyond Challenges relevant to the scaling of CMOS nanoelectronics are addressed through different core CMOS and memory device options in the first part of the book The second part reviews new device concepts for nanoelectronics beyond CMOS The book covers

the fundamental limits of core CMOS improving scaling by the introduction of new materials or processes new architectures using SOI multigates and multichannels and quantum computing

Disruptive Technologies And Muslim Societies: From Ai And Education To Food And Fintech Shahid Jameel, David C Clary, 2025-03-07 This edited volume brings together leading experts to explore the impact of disruptive technologies across a spectrum of Islamic countries and Muslim societies Spanning artificial intelligence science and technology health and education food systems and fintech the seventeen chapters of this collection offer a diverse array of perspectives Contributors to this volume from across the world including Islamic countries such as Malaysia Morocco Pakistan Qatar Saudi Arabia and Türkiye provide in depth analyses revealing how disruptive technologies are transforming Muslim societies and the subtle nuances shaping their impact Together the chapters show that these technologies tend to drive substantial change in Muslim societies but the nature and extent of these shifts vary sometimes mirroring developments in the West but often diverging due to distinct cultural and ethical contexts An essential resource for scholars policymakers and practitioners this book offers valuable insights into the evolving technological landscape of the Islamic World

Nanorods, Nanotubes, and Nanomaterials Research Progress Wesley V. Prescott, Arnold I. Schwartz, 2008 Nanotechnology is a catch all description of activities at the level of atoms and molecules that have applications in the real world A nanometer is a billionth of a meter about 1/80 000 of the diameter of a human hair or 10 times the diameter of a hydrogen atom Nanotechnology is now used in precision engineering new materials development as well as in electronics electromechanical systems as well as mainstream biomedical applications in areas such as gene therapy drug delivery and novel drug discovery techniques This new book presents the latest research from around the world on nanorods nanotubes and nanomaterials

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