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# Magnetic Nanostructures



Springer

# Magnetic Nanostructures Springer Series In Materials Science

**Abbass A. Hashim**



## **Magnetic Nanostructures Springer Series In Materials Science:**

**Magnetic Nanostructures** Bekir Aktas, Lenar Tagirov, Faik Mikailov, 2007-03-06 This volume addresses the exciting and rapidly developing topic of ultrahigh density magnetic data storage It is the most advanced book on magnetic nanostructures basics and applications It combines modern topics in nanomagnetism with issues relating to the fabrication and characterization of magnetic nanostructures This book will be of interest to R and D scientists and it provides an accessible introduction to the essential issues

**Nanostructured Materials for Magnetoelectronics** Bekir Aktas, Faik Mikailzade, 2013-01-17 This book provides an up to date review of nanometer scale magnetism and focuses on the investigation of the basic properties of magnetic nanostructures It describes a wide range of physical aspects together with theoretical and experimental methods A broad overview of the latest developments in this emerging and fascinating field of nanostructured materials is given with emphasis on the practical understanding and operation of submicron devices based on nanostructured magnetic materials

*Handbook of Nanophysics* Klaus D. Sattler, 2010-09-17 Many bottom up and top down techniques for nanomaterial and nanostructure generation have enabled the development of applications in nanoelectronics and nanophotonics Handbook of Nanophysics Nanoelectronics and Nanophotonics explores important recent applications of nanophysics in the areas of electronics and photonics Each peer reviewed c

**New Trends in Nanoparticle Magnetism** Davide Peddis, Sara Laureti, Dino Fiorani, 2021-01-15 This book provides comprehensive coverage of the most recent progress and developments in the field of magnetic nanoparticles with special emphasis on new materials design approaches for magnetic nanoarchitectures advanced characterization techniques and a wide range of applications areas including permanent magnets biomedicine and life sciences The book also features an exhaustive section on fundamentals covering single particle effects surface effects and interparticle interactions The book delivers a strong focus throughout on the multidisciplinary of the subject spanning physics chemistry engineering biology medicine and environmental science This forward looking contributed volume highlights future perspectives and areas of emerging research and will be of great interest to advanced undergraduates as well as researchers in academia and industry

Density-of-states Function And Related Applications In Quantized Structures Kamakhya Prasad Ghatak, Arindam Biswas, 2025-05-29 In recent years there has been considerable interest in studying the DENSITY OF STATES DOS functions and Related Applications in Quantized Structures of different technologically important materials in low dimensional electronics The concept of DOS function is of fundamental importance for not only the characterization of semiconductor nanostructures but also in the study of the carrier transport in quantum effect devices The acoustic mobility limited momentum relaxation time is inversely proportional to the respective DOS function of a particular semiconductor and the DOS function in turn is connected to the twenty five important transport topics of quantum effect devices namely the Landau Dia and Pauli s Para Magnetic Susceptibilities the Einstein s Photoemission the Einstein Relation the Debye Screening Length the Generalized Raman gain the Normalized Hall

coefficient the Fowler Nordheim Field Emission the Gate Capacitance the Thermoelectric Power the Plasma Frequency the Magneto Thermal effect in Quantized Structures the Activity coefficient the Reflection coefficient the Heat Capacity the Faraday rotation the Optical Effective Mass the Carrier contribution to the elastic constants the Diffusion coefficient of the minority carriers the Nonlinear optical response the Third order nonlinear optical susceptibility the Righi Leduc coefficient the Electric Susceptibility the Electric Susceptibility Mass the Electron Diffusion Thermo power and the Hydrostatic Piezo resistance Coefficient respectively This first of a kind monograph investigates the DOS function and the aforementioned applications in quantized structures of tetragonal and non linear optical III V II VI Gallium Phosphide Germanium Platinum Antimonide stressed IV VI Lead Germanium Telluride II V Zinc and Cadmium diphosphides and Bismuth Telluride respectively We have also formulated the same and the allied physical properties of III V II VI IV VI and HgTe CdTe quantum well Heavily Doped HD superlattices with graded interfaces under magnetic quantization III V II VI IV VI and HgTe CdTe HD effective mass superlattices under magnetic quantization quantum confined effective mass superlattices and superlattices of HD optoelectronic materials with graded interfaces in addition to other quantized structures respectively This book covers from elementary applications in the first chapter up to rather advanced investigations in the later chapters We have suggested experimental determinations of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length and Elastic Constants in various types of quantized structures under different physical conditions This book contains 222 current open research problems which form an integral part of the text and are useful for both aspiring students and researchers It is written for graduate post graduate students engineers and professionals in the fields of condensed matter physics solid state sciences materials science nanoscience nanotechnology and nanostructured materials in general and this book will be invaluable to all those researching in academic and industrial laboratories in the said cases worldwide

**Novel Magnetic Nanostructures** Natalia Domracheva, Maria Caporali, Eva Rentschler, 2018-06-14 Novel Magnetic Nanostructures Unique Properties and Applications reviews the synthesis design characterization and unique properties of emerging nanostructured magnetic materials It discusses the most promising and relevant applications including data storage spintronics and biomedical applications Properties investigated include electronic self assembling multifunctional and magnetic properties along with magnetic phenomena Structures range from magnetic nanoclusters nanoparticles and nanowires to multilayers and self assembling nanosystems This book provides a better understanding of the static and dynamic magnetism in new nanostructures for important applications Provides an overview of the latest research on novel magnetic nanostructures including molecular nanomagnets metallocrown magnetic nanostructures magnetic dendrimers self assembling magnetic structures multifunctional nanostructures and much more Reviews the synthesis design characterization and detection of useful properties in new magnetic nanostructures Highlights the most relevant applications including spintronic data storage and biomedical applications

**Nanomaterials** Engg Kamakhya Prasad

Ghatak, Madhuchhanda Mitra, 2018-11-05 The work studies under different physical conditions the carrier contribution to elastic constants in heavily doped optoelectronic materials In the presence of intense photon field the authors apply the Heisenberg Uncertainty Principle to formulate electron statistics Many open research problems are discussed and numerous potential applications as quantum sensors and quantum cascade lasers are presented [An Introduction to Metamaterials and Nanophotonics](#) Constantin Simovski, Sergei Tretyakov, 2020-11-26 This book offers a unified presentation of metamaterials building from fundamental nanophotonic principles **Handbook of Less-Common Nanostructures** Boris I. Kharisov, Oxana Vasilievna Kharissova, Ubaldo Ortiz-Mendez, 2012-03-19 As nanotechnology has developed over the last two decades some nanostructures such as nanotubes nanowires and nanoparticles have become very popular However recent research has led to the discovery of other less common nanoforms which often serve as building blocks for more complex structures In an effort to organize the field the Handbook of Less Common Nanostructures presents an informal classification based mainly on the less common nanostructures A small nanotechnological encyclopedia this book Describes a range of little known nanostructures Offers a unifying vision of the synthesis of nanostructures and the generalization of rare nanoforms Includes a CD ROM with color versions of more than 100 nanostructures Explores the fabrication of rare nanostructures including modern physical chemical and biological synthesis techniques The Handbook of Less Common Nanostructures discusses a classification system not directly related to the dimensionality and chemical composition of nanostructure forming compounds or composite Instead it is based mainly on the less common nanostructures Possessing unusual shapes and high surface areas these structures are potentially very useful for catalytic medical electronic and many other applications *Metallic Nanoparticles*, 2008-11-21 Metallic nanoparticles display fascinating properties that are quite different from those of individual atoms surfaces or bulk materials They are a focus of interest for fundamental science and because of their huge potential in nanotechnology they are the subject of intense research effort in a range of disciplines Applications or potential applications are diverse and interdisciplinary They include for example use in biochemistry in catalysis and as chemical and biological sensors as systems for nanoelectronics and nanostructured magnetism e g data storage devices where the drive for further miniaturization provides tremendous technological challenges and in medicine there is interest in their potential as agents for drug delivery The book describes the structure of metallic nanoparticles the experimental and theoretical techniques by which this is determined and the models employed to facilitate understanding The various methods for the production of nanoparticles are outlined It surveys the properties of clusters and the methods of characterisation such as photoionization optical spectroscopy chemical reactivity and magnetic behaviour and discusses element specific information that can be extracted by synchrotron based techniques such as EXAFS XMCD and XMLD The properties of clusters can vary depending on whether they are free deposited on a surface or embedded in a matrix of another material these issues are explored Clusters on a surface can be formed by the diffusion and aggregation of atoms

ways of modelling these processes are described Finally we look at nanotechnology and examine the science behind the potential of metallic nanoparticles in chemical synthesis catalysis the magnetic separation of biomolecules the detection of DNA the controlled release of molecules and their relevance to data storage The book addresses a wide audience There was a huge development of the subject beginning in the mid 1980s where researchers began to study the properties of free nanoparticle and models were developed to describe the observations The newcomer is introduced to the established models and techniques of the field without the need to refer to other sources to make the material accessible It then takes the reader through to the latest research and provides a comprehensive list of references for those who wish to pursue particular aspects in more detail It will also be an invaluable handbook for the expert in a particular aspect of nanoscale research who wishes to acquire knowledge of other areas The authors are specialists in different aspects of the subject with expertise in physics and chemistry experimental techniques and computational modelling and in interdisciplinary research They have collaborated in research They have also collaborated in writing this book with the aim from the outset of making it a coherent whole rather than a series of independent loosely connected articles Appeals to a wide audience Provides an introduction to established models and techniques in the field Comprehensive list of references

**Smart Nanoparticles Technology** Abbass A. Hashim, 2012-04-18 In the last few years Nanoparticles and their applications dramatically diverted science in the direction of brand new philosophy The properties of many conventional materials changed when formed from nanoparticles Nanoparticles have a greater surface area per weight than larger particles which causes them to be more reactive and effective than other molecules In this book we InTech publisher editor and authors have invested a lot of effort to include 25 most advanced technology chapters The book is organised into three well heeled parts We would like to invite all Nanotechnology scientists to read and share the knowledge and contents of this book

*Electron Statistics In Quantum Confined Superlattices* Kamakhya Prasad Ghatak, Arindam Biswas, 2023-03-14 The concepts of the Electron Statistics ES and the ES dependent electronic properties are basic pillars in semiconductor electronics and this first of its kind book deals with the said concepts in doping superlattices SLs quantum well quantum wire and quantum dot SLs effective mass SLs SLs with graded interfaces and Fibonacci SLs under different physical conditions respectively The influences of intense radiation and strong electric fields under said concepts have been considered together with the heavily doped SLs in this context on the basis of newly formulated the electron energy spectra in all the cases We have suggested experimental determinations of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length Elastic Constants and the content of this book finds 25 different applications in the arena of nanoscience and nanotechnology This book contains hundred open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers It is written for post graduate students of various departments of different academic organizations engineers and professionals in the fields of solid state electronics materials science solid state sciences nano science nanotechnology and nano materials in general

**Communication Shock** Ty Adams, Steve Smith, 2015-09-04 In the spirit of Alvin Toffler's acclaimed works peering into the future of the technological society *Communication Shock* is a concise history of communication technologies and an exploration of the possible social and human impacts of nanotechnology on the ecology of human communication. As we become increasingly more networked with communication technologies, we must come to understand and confront the social impact of these changes. More importantly, we must wisely choose in embracing or rejecting these technologies and exploring how we might do both by striking an appropriate balance. Grounded in communication theory and praxis, *Communication Shock* brings some objectivity to the discussion of technology, maps its development, and encourages a rational conversation about its potential problems and promise. It challenges readers to reach their own conclusions about the future imagined and unimaginable about the fundamental values in conflict and how one might choose to embrace or contest them to maintain individual autonomy in the face of increasingly ubiquitous marketing and technological change. Present and emerging communications technologies hold the promise for a bold new future, but they also have their inherent risks and drawbacks. *Communication Shock* is the human response, conscious or unconscious, wherein the individual chooses to resist the growing pervasiveness of technology in his or her life by seeking ways to reduce or redirect new technologies or to reject the addition of such technologies altogether. Here is a framework for understanding the potential of the evolving technologies, determining which are essential and which are distractions from the life that one believes to be meaningful, and making informed choices for the life one wishes to live.

**Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management** Shah, M. A., Bhat, M. A., Davim, J. Paulo, 2014-07-31 As nanoscale research continues to advance, scientists and engineers are developing new applications for many different disciplines, including environmental remediation and energy optimization. *Nanotechnology Applications for Improvements in Energy Efficiency and Environmental Management* combines up-to-date research findings and relevant theoretical frameworks on the subject of micro-scale technologies being used to promote environmental sustainability. Highlighting the impacts this technology has on energy production and remediation, this book is an all-inclusive reference source for professionals and researchers interested in understanding the multi-disciplinary applications of nanotechnology and nanoscience.

**Quantum Capacitance In Quantized Transistors** Kamakhya Prasad Ghatak, Jayita Pal, 2024-02-06 In recent years, there has been considerable interest in studying the quantum capacitance (QC) in 2D quantum MOSFETs (QMOSFET) and 1D Nano Wire FET (NWFET) devices of various technologically important materials which find extensive applications in many directions in low-dimensional electronics. The 2D and 1D electron statistics in inversion layers of MOSFETs can rather easily be varied by changing the gate voltage, which in turn brings a change of the surface electric field. The QC depends on the gate voltage. This first of its kind book deals solely with the QC in 2D MOSFETs of non-linear optical ternary quaternary III-V compounds (II-VI, IV-VI, stressed Kane type Ge, GaP, Bismuth telluride, Gallium Antimonide) and their 1D NWFETs (counter parts). The influence of quantizing magnetic field crossed

electric and magnetic fields parallel magnetic field have also been considered on the QC of the said devices of the aforementioned materials The influences of strong light waves and ultra strong electric field present in nano devices have also been considered The accumulation layers of the quantum effect devices of the said materials have also been discussed in detail by formulating the respective dispersion relations of the heavily doped compounds The QC in 1D MOSFET of the said materials have also been investigated in this context on the basis of newly formulated electron energy spectra in all the cases The QC in quantum well transistors and magneto quantum well transistors together with CNTFETs have been formulated and discussed in detail along with I V equations of ballistic QWFETs and NWFETs together with their heavily doped counter parts under different external physical conditions In this context experimental determinations are suggested of the Einstein relation for the Diffusivity Mobility ratio the Debye screening length Elastic Constants and the content of this book finds twenty two different applications in the arena of nanoscience and nanotechnology This book contains hundred open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers

Magneto Thermoelectric Power In Heavily Doped Quantized Structures Kamakhya Prasad Ghatak, 2016-01-28 This pioneering monograph solely deals with the Magneto Thermoelectric Power MTP in Heavily Doped HD Quantized Structures The materials considered range from HD quantum confined nonlinear optical materials to HgTe CdTe HD superlattices with graded interfaces and HD effective mass superlattices under magnetic quantization An important concept of the measurement of the band gap in HD optoelectronic materials in the presence of external photo excitation has been discussed in this perspective The influences of magnetic quantization crossed electric and quantizing fields the intense electric field on the TPM in HD semiconductors and superlattices are also discussed This book contains 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the various fields for which this particular series is dedicated

**Magnetic Nanoparticles in Human Health and Medicine** Costica Caizer, Mahendra Rai, 2021-09-08 Magnetic Nanoparticles in Human Health and Medicine Explores the application of magnetic nanoparticles in drug delivery magnetic resonance imaging and alternative cancer therapy Magnetic Nanoparticles in Human Health and Medicine addresses recent progress in improving diagnosis by magnetic resonance imaging MRI and using non invasive and non toxic magnetic nanoparticles for targeted drug delivery and magnetic hyperthermia Focusing on cancer diagnosis and alternative therapy the book covers both fundamental principles and advanced theoretical and experimental research on the magnetic properties biocompatibilization biofunctionalization and application of magnetic nanoparticles in nanobiotechnology and nanomedicine Chapters written by a panel of international specialists in the field of magnetic nanoparticles and their applications in biomedicine cover magnetic hyperthermia MHT MRI contrast agents biomedical imaging modeling and simulation nanobiotechnology toxicity issues and more Readers are provided with accurate information on the use of magnetic nanoparticles in diagnosis drug delivery and alternative cancer therapeutics featuring



discussion of current problems proposed solutions and future research directions Topics include current applications of magnetic iron oxide nanoparticles in nanomedicine and alternative cancer therapy drug delivery magnetic resonance imaging superparamagnetic hyperthermia as alternative cancer therapy magnetic hyperthermia in clinical trials and simulating the physics of magnetic particle heating for cancer therapy This comprehensive volume Covers both general research on magnetic nanoparticles in medicine and specific applications in cancer therapeutics Discusses the use of magnetic nanoparticles in alternative cancer therapy by magnetic and superparamagnetic hyperthermia Explores targeted medication delivery using magnetic nanoparticles as a future replacement of conventional techniques Reviews the use of MRI with magnetic nanoparticles to increase the diagnostic accuracy of medical imaging Magnetic Nanoparticles in Human Health and Medicine is a valuable resource for researchers in the fields of nanomagnetism magnetic nanoparticles nanobiomaterials nanobioengineering biopharmaceuticals nanobiotechnologies nanomedicine and biopharmaceuticals particularly those focused on alternative cancer diagnosis and therapeutics

### **Quantum Effects, Heavy Doping, And The Effective Mass**

Kamakhya Prasad Ghatak, 2016-12-08 The importance of the effective mass EM is already well known since the inception of solid state physics and this first of its kind monograph solely deals with the quantum effects in EM of heavily doped HD nanostructures The materials considered are HD quantum confined nonlinear optical III V II VI IV VI GaP Ge PtSb<sub>2</sub> stressed materials GaSb Te II V Bi<sub>2</sub>Te<sub>3</sub> lead germanium telluride zinc and cadmium diphosphides and quantum confined III V II VI IV VI and HgTe CdTe super lattices with graded interfaces and effective mass super lattices The presence of intense light waves in optoelectronics and strong electric field in nano devices change the band structure of semiconductors in fundamental ways which have also been incorporated in the study of EM in HD quantized structures of optoelectronic compounds that control the studies of the HD quantum effect devices under strong fields The importance of measurement of band gap in optoelectronic materials under intense external fields has also been discussed in this context The influences of magnetic quantization crossed electric and quantizing fields electric field and light waves on the EM in HD semiconductors and super lattices are discussed The content of this book finds twenty eight different applications in the arena of nano science and nano technology This book contains 200 open research problems which form the integral part of the text and are useful for both PhD aspirants and researchers in the fields of condensed matter physics materials science solid state sciences nano science and technology and allied fields in addition to the graduate courses in semiconductor nanostructures The book is written for post graduate students researchers engineers and professionals in the fields of condensed matter physics solid state sciences materials science nanoscience and technology and nanostructured materials in general

### **What is What in the**

**Nanoworld** Victor E. Borisenko, Stefano Ossicini, 2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A representative collection of fundamental terms and

definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology     Radiation Technologies and Applications in Materials Science Subhendu Ray Chowdhury, 2022-12-30 This book explains various kinds of non ionizing and high energy radiations their interaction with materials and chemical reactions and conditions of various kinds of materials development technologies including applications It covers a processing structure property relationship and radiations used in developing many advanced materials used in various fields It highlights application oriented materials synthesis and modification covering a wide variety of materials such as plastics rubber thermo set ceramics and so forth by various radiations Features Explains ionizing and non ionizing radiation assisted materials development technologies for polymers ceramics metals and carbons Covers radiation assisted synthesis processing and modification of all kinds of materials Provides comparative studies merits demerits and applications very systematically Criss crosses polymers science and technology radiation technology advanced materials technology biomaterials technology and so forth Includes a section on 3D printing by LASER melting of CoCr alloys This book is aimed at researchers and graduate students in materials science radiation chemistry and physics and polymer and other materials processing

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