Ultrathin Magnetic Structures Iii Fundamentals Of

Ultrathin Magnetic Structures I Anthony Bland,J.A.C. Bland,Bretislav Heinrich.2005-01-24 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism which already has a profound impact in technology and is providing the basis for a revolution in electronics. The last decade has seen dramatic progress in the development of magnetic devices for information technology but also in the basic understanding of the physics of magnetic nanostructures. This volume describes thin film magnetic properties and methods for characterising thin film structure topics that underpin the present 'spintronics' revolution in which devices are based on combined magnetic materials and semiconductors. Volume IV deals with the fundamentals of spintronics: magnetoelectronic materials, spin injection and detection, micromagnetics and the development of magnetic random access memory based on GMR and tunnel junction devices. Together these books provide readers with a comprehensive account of an exciting and rapidly developing field. The treatment is designed to be accessible both to newcomers and to experts already working in this field who would like to get a better understanding of this very diversified area of research.

Magnetic Heterostructures H. Zabel,Samuel D. Bader.2007-10-26 Heterostructures consist of combinations of different materials, which are in contact through at least one interface. Magnetic heterostructures combine different physical properties which do

not exist in nature. This book provides the first comprehensive overview of an exciting and fast developing field of research, which has already resulted in numerous applications and is the basis for future spintronic devices.

Thermoelectric Power in Nanostructured Materials Kamakhya Prasad Ghatak,Sitangshu Bhattacharya.2010-07-20 This is the first monograph which solely investigates the thermoelectric power in nanostrcutured materials under strong magnetic field (TPSM) in quantum confined nonlinear optical, III-V, II-VI, n-GaP, n-Ge, Te, Graphite, PtSb2, zerogap, II-V, Gallium Antimonide, stressed materials, Bismuth, IV-VI, lead germanium telluride, Zinc and Cadmium diphosphides, Bi2Te3, Antimony and carbon nanotubes, III-V, II-VI, IV-VI and HgTe/CdTe superlattices with graded interfaces and effective mass superlattices under magnetic quantization, the quantum wires and dots of the aforementiond superlattices by formulating the approprate respective carrier energy spectra which in turn control the quantum processes in quantum effect devices. The TPSM in macro, quantum wire and quantum dot superlattices of optoelectronic materials in the presence of external photo-excitation have also been studied on the basis of newly formulated electron dispersion laws. This monograph contains 150 open research problems which form the very core and are useful for PhD students and researchers in the fields of materials science, solid-state sciences, computational and theoretical nanoscience and technology, nanostructured thermodynamics and condensed matter physics in general in addition to the graduate courses on modern thermoelectric materials in various academic departments of many institutes and universities.

Quantum Effects, Heavy Doping, And The Effective Mass Ghatak Kamakhya Prasad.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, PtSb2, stressed materials, GaSb, Te, II-V, Bi2Te3, 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.

Ultrathin Magnetic Structures .1994

Quantum Theory of Magnetism Robert M. White.2013-04-18

Although it is one of the oldest physical phenomena studied, magnetism con tinues to be an active and challenging subject. This is due to the fact that mag netic phenomena represent a complex application of quantum mechanics, statistical physics,

and electromagnetism. As new magnetic materials are synthesized and new experimental conditions realized, the very fundamentals of these subjects are expanded. Thus, the Kondo effect, like superconductivity, stimulated the development of many-body techniques; spin glasses with their competing interactions are leading to advances in statistical physics; and angle and spin-resolved photoemission is probing details of transition-metal electronic states never before possible. I have not tried to incorporate all the new developments in this subject since the first edition ten years ago. My purpose is still the same - to use linear response theory to establish a common conceptual basis for understanding a variety of magnetic phenomena. Many recent developments fit into this frame work and have been included.

Magnetic Multilayers and Giant Magnetoresistance U. Hartmann.2013-03-14 This unified overview of recent progress in a growing, multi-disciplinary field places special emphasis on the industrial applications of magnetic multilayered materials. The text describes a wide range of physical aspects, together with experimental and theoretical methods.

Springer Handbook of Surface Science Mario Rocca,Talat Rahman,Luca Vattuone.2021-01-14 This handbook delivers an up-to-date, comprehensive and authoritative coverage of the broad field of surface science, encompassing a range of important materials such metals, semiconductors, insulators, ultrathin films and supported nanoobjects. Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid-state surfaces, from basic principles to applications, including the latest, ground-breaking research results. Beginning with the fundamental background of kinetics and thermodynamics at surfaces, the handbook leads the reader through the basics of crystallographic structures and electronic properties, to the advanced topics at the forefront of current research. These include but are not limited to novel applications in

nanoelectronics, nanomechanical devices, plasmonics, carbon films, catalysis, and biology. The handbook is an ideal reference guide and instructional aid for a wide range of physicists, chemists, materials scientists and engineers active throughout academic and industrial research.

Fundamentals of Magnetism Mathias Getzlaff.2007-09-20 The first part of this state-of-the-art book conveys the fundamentals of magnetism for atoms and bulk-like solid-state systems, providing a basis for understanding new phenomena which exclusively occur in low-dimensional systems as the giant magneto resistance. This wide field is discussed in the second part. Suitable for graduate students in physical and materials sciences, the book includes numerous examples, exercises, and references.

Ultrathin Magnetic Structures II Bretislav Heinrich,J.A.C. Bland.2005-12-31 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism, with profound impact in technology and serving as the basis for a revolution in electronics. Our understanding of the physics of magnetic nanostructures has also advanced significantly. This rapid development has generated a need for a comprehensive treatment that can serve as an introduction to the field for those entering it from diverse fields, but which will also serve as a timely overview for those already working in this area. The four-volume work Ultra-Thin Magnetic Structures aims to fulfill this dual need. The original two volumes – now available once more – are An Introduction to the Electronic, Magnetic and Structural Properties (Vol. I) and Measurement Techniques and Novel Magnetic Properties (this volume). Two new volumes, Fundamentals of Nanomagnetism and Applications of Nanomagnetism, extend and complete this comprehensive work by presenting the foundations of spintronics.

Fowler-Nordheim Field Emission Sitangshu Bhattacharya,Kamakhya Prasad Ghatak.2012-01-13 This monograph solely presents the Fowler-Nordheim field emission

(FNFE) from semiconductors and their nanostructures. The materials considered are quantum confined non-linear optical, III-V, II-VI, Ge, Te, carbon nanotubes, PtSb2, stressed materials, Bismuth, GaP, Gallium Antimonide, II-V, Bi2Te3, III-V, II-VI, IV-VI and HgTe/CdTe superlattices with graded interfaces and effective mass superlattices under magnetic quantization and quantum wires of the aforementioned superlattices. The FNFE in opto-electronic materials and their quantum confined counterparts is studied in the presence of light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices. The importance of band gap measurements in opto-electronic materials in the presence of external fields is discussed from this perspective. This monograph contains 200 open research problems which form the very core and are useful for Ph. D students and researchers. The book can also serve as a basis for a graduate course on field emission from solids.

Ultrathin Magnetic Structures I J.A.C. Bland,Bretislav Heinrich.2005-01-24 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism, with profound impact in technology and serving as the basis for a revolution in electronics. Our understanding of the physics of magnetic nanostructures has also advanced significantly. This rapid development has generated a need for a comprehensive treatment that can serve as an introduction to the field for those entering it from diverse fields, but which will also serve as a timely overview for those already working in this area. The four-volume work Ultra-Thin Magnetic Structures aims to fulfill this dual need. The original two volumes – now available once more – are An Introduction to the Electronic, Magnetic and Structural Properties (this volume) and Measurement Techniques and Novel Magnetic Properties. Two new volumes, Fundamentals of Nanomagnetism and Applications of Nanomagnetism, extend and complete this comprehensive work by presenting the

foundations of spintronics.

Measurement Techniques and Novel Magnetic Properties .2005

Ultrathin Magnetic Structures IV Bretislav Heinrich,J.A.C. Bland.2004-12-13 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism which already has a profound impact in technology and is providing the basis for a revolution in electronics. The last decade has seen dramatic progress in the development of magnetic devices for information technology but also in the basic understanding of the physics of magnetic nanostructures. Volume III describes thin film magnetic properties and methods for characterising thin film structure topics that underpin the present 'spintronics' revolution in which devices are based on combined magnetic materials and semiconductors. The present volume (IV) deals with the fundamentals of spintronics: magnetoelectronic materials, spin injection and detection, micromagnetics and the development of magnetic random access memory based on GMR and tunnel junction devices. Together these books provide readers with a comprehensive account of an exciting and rapidly developing field. The treatment is designed to be accessible both to newcomers and to experts already working in this field who would like to get a better understanding of this very diversified area of research.

Ultrathin Magnetic Structures: Measurement techniques and novel magnetic properties Bretislav Heinrich.1994

Fundamentals of Low Dimensional Magnets Ram K. Gupta,Sanjay R. Mishra,Tuan Anh Nguyen.2022-08-29 A low-dimensional magnet is a key to the next generation of electronic devices. In some respects, low-dimensional magnets refer to nanomagnets (nanostructured magnets) or single-molecule magnets (molecular nanomagnets). They also include the group of magnetic nanoparticles, which have been widely used in biomedicine, technology, industries, and environmental remediation. Low-

dimensional magnetic materials can be used effectively in the future in powerful computers (hard drives, magnetic random-access memory, ultra-low power consumption switches, etc.). The properties of these materials largely depend on the doping level, phase, defects, and morphology. This book covers various nanomagnets and magnetic materials. The basic concepts, various synthetic approaches, characterizations, and mathematical understanding of nanomaterials are provided. Some fundamental applications of 1D, 2D, and 3D materials are covered. This book provides the fundamentals of low-dimensional magnets along with synthesis, theories, structure-property relations, and applications of ferromagnetic nanomaterials. This book broadens our fundamental understanding of ferromagnetism and mechanisms for realization and advancement in devices with improved energy efficiency and high storage capacity.

Modern Magnetic and Spintronic Materials Andreas Kaidatzis,Serhii Sidorenko,Igor Vladymyrskyi,Dimitrios Niarchos.2020-07-14 Magnetic and spintronic materials are ubiquitous in modern technological applications, e.g. in electric motors, power generators, sensors and actuators, not to mention information storage and processing. Medical technology has also greatly benefited from magnetic materials – especially magnetic nanoparticles – for therapy and diagnostics methods. All of the above-mentioned applications rely on the properties of the materials used. These properties in turn depend on intrinsic and extrinsic material parameters. The former are related to the actual elements used and their properties, e.g. atomic magnetic moment and exchange interaction between atoms; the latter are related to the structural and microstructural properties of the materials used, e.g. their crystal structure, grain size, and grain boundary phases. Focusing on state-of-the-art magnetic and spintronic materials, this book will introduce readers to a range of related topics in Physics and Materials Science. Phenomena and processes at the nanoscale are of particular importance in

this context; accordingly, much of the book addresses such topics.
Debye Screening Length Kamakhya Prasad Ghatak,Sitangshu Bhattacharya.2013-11-05 This monograph solely investigates the Debye Screening Length (DSL) in semiconductors and their nano-structures. The materials considered are quantized structures of non-linear optical, III-V, II-VI, Ge, Te, Platinum Antimonide, stressed materials, Bismuth, GaP, Gallium Antimonide, II-V and Bismuth Telluride respectively. The DSL in opto-electronic materials and their quantum confined counterparts is studied in the presence of strong light waves and intense electric fields on the basis of newly formulated electron dispersion laws that control the studies of such quantum effect devices. The suggestions for the experimental determination of 2D and 3D DSL and the importance of measurement of band gap in optoelectronic materials under intense built-in electric field in nano devices and strong external photo excitation (for measuring photon induced physical properties) have also been discussed in this context. The influence of crossed electric and quantizing magnetic fields on the DSL and the DSL in heavily doped semiconductors and their nanostructures has been investigated. This monograph contains 150 open research problems which form the integral part of the text and are useful for both PhD students and researchers in the fields of solid-state sciences, materials science, nano-science and technology and allied fields in addition to the graduate courses in modern semiconductor nanostructures.
Heisenberg's Uncertainty Principle and the Electron Statistics in Quantized Structures Kamakhya Prasad Ghatak,Madhuchhanda Mitra,Arindam Biswas.2022-03-25 This book highlights the importance of Electron Statistics (ES), which occupies a singular position in the arena of solid state sciences, in heavily doped (HD) nanostructures by applying Heisenberg's Uncertainty Principle directly without using the complicated Density-of-States function approach as given in the literature. The materials considered are HD quantum confined nonlinear optical, III-V, II-VI, IV-VI, GaP,

Ge, PtSb2, stressed materials, GaSb, Te, II-V, Bi2Te3, lead germanium telluride, zinc and cadmium diphosphides, and quantum confined III-V, IV-VI, II-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 materials in fundamental ways, which have also been incorporated in the study of ES in HD quantized structures of optoelectronic compounds that control the studies of the HD quantum effect devices under strong fields. The influence of magnetic quantization, magneto size quantization, quantum wells, wires and dots, crossed electric and quantizing fields, intense electric field, and light waves on the ES in HD quantized structures and superlattices are discussed. The content of this book finds six different applications in the arena of nano-science and nanotechnology and the various ES dependent electronic quantities, namely the effective mass, the screening length, the Einstein relation and the elastic constants have been investigated. This book is useful for researchers, engineers and professionals in the fields of Applied Sciences, solid state and materials science, nano-science and technology, condensed matter physics, and allied fields, including courses in semiconductor nanostructures.

Ultrathin Magnetic Structures II Bretislav Heinrich.1994

Elastic Constants In Heavily Doped Low Dimensional Materials Kamakhya Prasad Ghatak,Madhuchhanda Mitra.2021-03-15 The elastic constant (EC) is a very important mechanical property of the these materials and its significance is already well known in literature. This first monograph solely deals with the quantum effects in EC of heavily doped (HD) low dimensional materials. The materials considered are HD quantum confined nonlinear optical, III-V, II-VI, IV-VI, GaP, Ge, $PtSb_2$, stressed materials, GaSb, Te, II-V, Bi_2Te_3, 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 changes the band structure of semiconductors in fundamental ways, which have also been incorporated in the study of EC in HD low dimensional 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 EC in HD semiconductors and super-lattices are discussed.The content of this book finds twenty-five different applications in the arena of nano-science and nano-technology. We The authors have discussed the experimental methods of determining the Einstein Relation, screening length and EC in this context. This book contains circa 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.

Fundamentals and Applications of Magnetic Materials Kannan M. Krishnan.2016-10-06 Students and researchers looking for a comprehensive textbook on magnetism, magnetic materials and related applications will find in this book an excellent explanation of the field. Chapters progress logically from the physics of magnetism, to magnetic phenomena in materials, to size and dimensionality effects, to applications. Beginning with a description of magnetic phenomena and measurements on a macroscopic scale, the book then presents discussions of intrinsic and phenomenological concepts of magnetism such as electronic magnetic moments and classical, quantum, and band theories of magnetic behavior. It then covers ordered magnetic materials (emphasizing their structure-sensitive properties) and magnetic

phenomena, including magnetic anisotropy, magnetostriction, and magnetic domain structures and dynamics. What follows is a comprehensive description of imaging methods to resolve magnetic microstructures (domains) along with an introduction to micromagnetic modeling. The book then explores in detail size (small particles) and dimensionality (surface and interfaces) effects — the underpinnings of nanoscience and nanotechnology that are brought into sharp focus by magnetism. The hallmark of modern science is its interdisciplinarity, and the second half of the book offers interdisciplinary discussions of information technology, magnetoelectronics and the future of biomedicine via recent developments in magnetism. Modern materials with tailored properties require careful synthetic and characterization strategies. The book also includes relevant details of the chemical synthesis of small particles and the physical deposition of ultra thin films. In addition, the book presents details of state-of-the-art characterization methods and summaries of representative families of materials, including tables of properties. CGS equivalents (to SI) are included.

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.

Ultrathin Magnetic Structures III J.A.C. Bland,Bretislav Heinrich.2005-12-06 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism which already has a profound impact in technology and is providing the basis for a revolution in electronics. The last decade has seen dramatic progress in the development of magnetic devices for information technology but also in the basic understanding of the physics of magnetic nanostructures. This volume describes thin film magnetic properties and methods for characterising thin film structure topics that underpin the present 'spintronics' revolution in which devices are based on combined magnetic materials and semiconductors. Volume IV deals with the fundamentals of spintronics: magnetoelectronic materials, spin injection and detection, micromagnetics and the development of magnetic random access memory based on GMR and tunnel junction devices. Together these books provide readers with a comprehensive account of an exciting and rapidly developing field. The treatment is designed to be accessible both to newcomers and to experts already working in this field who would like to get a better understanding of this very diversified area of research.

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.

Nanomagnetism D. L. Mills,J. Anthony C. Bland.2006 After a brief introduction by the editors, Wu first surveys the fundamental properties of magnetic nanostructures. The interlayer exchange

interactions within magnetic multilayer structures is next discussed by Stiles. Camley then discusses the static, dynamic and thermal properties of magnetic multilayers and nanostructures, followed by an account of the phenomenon of exchange anisotropy by Berkowitz and Kodama. This latter phenomenon is widely in current read head devices for example. The transport properties of nanostructures also are spectacular, and again underpin computer technology, as we see from the discussion of giant magnetoresistance (GMR) and tunnelling magnetoresistance (TMR) presented by Fert and his colleagues. Beyond GMR and TMR we look to the field of spintronics where new electronic devices are envisioned and for which quantum computing may depend as discussed in the chapter by Flatte and Jonker.-

Ultrathin Magnetic Structures II Bretislav Heinrich,J. A. C. Bland.2008-08-26

Ultrathin Magnetic Structures J. Anthony C. Bland.1994 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism which already has a profound impact in technology and is providing the basis for a revolution in electronics. The last decade has seen dramatic progress in the development of magnetic devices for information technology but also in the basic understanding of the physics of magnetic nanostructures. This volume describes thin film magnetic properties and methods for characterising thin film structure topics that underpin the present 'spintronics' revolution in which devices are based on combined magnetic materials and semiconductors. Volume IV deals with the fundamentals of spintronics: magnetoelectronic materials, spin injection and detection, micromagnetics and the development of magnetic random access memory based on GMR and tunnel junction devices. Together these books provide readers with a comprehensive account of an exciting and rapidly developing field. The treatment is designed to be accessible both to

newcomers and to experts already working in this field who would like to get a better understanding of this very diversified area of research.

Neutron Scattering - Magnetic and Quantum Phenomena

.2015-11-29 Neutron Scattering - Magnetic and Quantum Phenomena provides detailed coverage of the application of neutron scattering in condensed matter research. The book's primary aim is to enable researchers in a particular area to identify the aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required to carry them out, write a successful proposal for one of the major user facilities, and perform the experiments under the guidance of the appropriate instrument scientist. An earlier series edited by Kurt Sköld and David L. Price, and published in the 1980s by Academic Press as three volumes in the series Methods of Experimental Physics, was very successful and remained the standard reference in the field for several years. This present work has similar goals, taking into account the advances in experimental techniques over the past quarter-century, for example, neutron reflectivity and spin-echo spectroscopy, and techniques for probing the dynamics of complex materials of technological relevance. This volume complements Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013. Covers the application of neutron scattering techniques in the study of quantum and magnetic phenomena, including superconductivity, multiferroics, and nanomagnetism Presents up-to-date reviews of recent results, aimed at enabling the reader to identify new opportunities and plan neutron scattering experiments in their own field Provides a good balance between theory and experimental techniques Provides a complement to Price and Fernandez-Alonso (Eds.), Neutron Scattering - Fundamentals published in November 2013

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. *Introduction to Magnetic Random-Access Memory* Bernard Dieny,Ronald B. Goldfarb,Kyung-Jin Lee.2016-11-14 Magnetic random-access memory (MRAM) is poised to replace traditional computer memory based on complementary metal-oxide semiconductors (CMOS). MRAM will surpass all other types of memory devices in terms of nonvolatility, low energy dissipation, fast switching speed, radiation hardness, and durability. Although

toggle-MRAM is currently a commercial product, it is clear that future developments in MRAM will be based on spin-transfer torque, which makes use of electrons' spin angular momentum instead of their charge. MRAM will require an amalgamation of magnetics and microelectronics technologies. However, researchers and developers in magnetics and in microelectronics attend different technical conferences, publish in different journals, use different tools, and have different backgrounds in condensed-matter physics, electrical engineering, and materials science. This book is an introduction to MRAM for microelectronics engineers written by specialists in magnetic materials and devices. It presents the basic phenomena involved in MRAM, the materials and film stacks being used, the basic principles of the various types of MRAM (toggle and spin-transfer torque; magnetized in-plane or perpendicular-to-plane), the back-end magnetic technology, and recent developments toward logic-in-memory architectures. It helps bridge the cultural gap between the microelectronics and magnetics communities.

Handbook of Magnetism and Advanced Magnetic Materials, 5 Volume Set Helmut Kronmüller,Stuart Parkin.2007-09-11 From the first application of the oxide magnetite as a compass in China in ancient times, and from the early middle ages in Europe, magnetic materials have become an indispensable part of our daily life. Magnetic materials are used ubiquitously in the modern world, in fields as diverse as, for example, electrical energy transport, high-power electro-motors and generators, telecommunication systems, navigation equipment, aviation and space operations, micromechanical automation, medicine, magnetocaloric refrigeration, computer science, high density recording, non-destructive testing of materials, and in many household applications. Research in many of these areas continues apace. The progress made in recent years in computational sciences and advanced material preparation techniques has dramatically improved our knowledge of

fundamental properties and increased our ability to produce materials with highly-tailored magnetic properties, even down to the nanoscale dimension. Containing approximately 120 chapters written and edited by acknowledged world leaders in the field, The Handbook of Magnetism and Advanced Magnetic Materials provides a state-of-the-art, comprehensive overview of our current understanding of the fundamental properties of magnetically ordered materials, and their use in a wide range of sophisticated applications. The Handbook is published in five themed volumes, as follows: Volume 1- Fundamentals and Theory Volume 2- Micromagnetism Volume 3- Novel Techniques for Characterizing and Preparing Samples Volume 4- Novel Materials Volume 5- Spintronics and Magnetoelectronics

Nanomaterials Engg Kamakhya Prasad Ghatak,Madhuchhanda Mitra.2020-04-06 This monograph investigates the entropy in heavily doped (HD) quantized structures by analyzing under the influence of magnetic quantization, crossed electric and quantizing fields the range from HD quantum confined nonlinear optical materials to HgTe/CdTe HD superlattices with graded interfaces. Finally the authors address various challenges in today's research of optoelectronic materials and give an outlook to future studies.

Dispersion Relations in Heavily-Doped Nanostructures Kamakhya Prasad Ghatak.2015-10-26 This book presents the dispersion relation in heavily doped nano-structures. The materials considered are III-V, II-VI, IV-VI, GaP, Ge, Platinum Antimonide, stressed, GaSb, Te, II-V, HgTe/CdTe superlattices and Bismuth Telluride semiconductors. The dispersion relation is discussed under magnetic quantization and on the basis of carrier energy spectra. The influences of magnetic field, magneto inversion, and magneto nipi structures on nano-structures is analyzed. The band structure of optoelectronic materials changes with photo-excitation in a fundamental way according to newly formulated electron dispersion laws. They control the quantum effect in

optoelectronic devices in the presence of light. The measurement of band gaps in optoelectronic materials in the presence of external photo-excitation is displayed. The influences of magnetic quantization, crossed electric and quantizing fields, intense electric fields on the on the dispersion relation in heavily doped semiconductors and super-lattices are also discussed. This book contains 200 open research problems which form the integral part of the text and are useful for graduate students and researchers. The book is written for post graduate students, researchers and engineers.

Ultrathin Magnetic Structures I J.A.C. Bland,Bretislav Heinrich.2006-01-16 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism, with profound impact in technology and serving as the basis for a revolution in electronics. Our understanding of the physics of magnetic nanostructures has also advanced significantly. This rapid development has generated a need for a comprehensive treatment that can serve as an introduction to the field for those entering it from diverse fields, but which will also serve as a timely overview for those already working in this area. The four-volume work Ultra-Thin Magnetic Structures aims to fulfill this dual need. The original two volumes – now available once more – are An Introduction to the Electronic, Magnetic and Structural Properties (this volume) and Measurement Techniques and Novel Magnetic Properties. Two new volumes, Fundamentals of Nanomagnetism and Applications of Nanomagnetism, extend and complete this comprehensive work by presenting the foundations of spintronics.

Ultrathin Magnetic Structures IV Bretislav Heinrich,J.A.C. Bland.2004-12-13 The ability to understand and control the unique properties of interfaces has created an entirely new field of magnetism which already has a profound impact in technology and is providing the basis for a revolution in electronics. The last decade has seen dramatic progress in the development of

magnetic devices for information technology but also in the basic understanding of the physics of magnetic nanostructures. Volume III describes thin film magnetic properties and methods for characterising thin film structure topics that underpin the present 'spintronics' revolution in which devices are based on combined magnetic materials and semiconductors. The present volume (IV) deals with the fundamentals of spintronics: magnetoelectronic materials, spin injection and detection, micromagnetics and the development of magnetic random access memory based on GMR and tunnel junction devices. Together these books provide readers with a comprehensive account of an exciting and rapidly developing field. The treatment is designed to be accessible both to newcomers and to experts already working in this field who would like to get a better understanding of this very diversified area of research.

Ultrathin Magnetic Structures Anthony Bland,Bretislav Heinrich.1994

Handbook of Magnetic Materials K.H.J. Buschow.2009-10-24 Volume 18 of the Handbook of Magnetic Materials, as the preceding volumes, has a dual purpose. As a textbook it is intended to help those who wish to be introduced to a given topic in the field of magnetism without the need to read the vast amount of literature published. As a work of reference it is intended for scientists active in magnetism research. To this dual purpose, Volume 18 is composed of topical review articles written by leading authorities. In each of these articles an extensive description is given in graphical as well as in tabular form, much emphasis being placed on the discussion of the experimental material in the framework of physics, chemistry and material science. It provides readers with novel trends and achievements in magnetism. Composed of topical review articles written by leading authorities Intended to be of assistance to those who wish to be introduced to a given topic in the field of magnetism As a work of reference it is intended for scientists active in magnetism

research Provide the readership with novel trends and achievements in magnetism

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. Contents:Part I: Magneto Thermoelectric Power (MTP) in HD Quantum Confined Non-Parabolic Semiconductors:The MTP in Quantum Wells (QWs) of Heavily Doped (HD) Non-Parabolic SemiconductorsThe MTP in Nano Wires (NWs) of Heavily Doped (HD) Non-Parabolic SemiconductorsThe MTP from Quantum Box (QB) of Heavily Doped (HD) Non-Parabolic SemiconductorsThe MTP in Heavily Doped (HD) Non-Parabolic Semiconductors Under Magnetic QuantizationThe MTP in Heavily Doped (HD) Non-Parabolic Semiconductors Under Magneto-Size QuantizationPart II: The MTP in Heavily Doped (HD) Quantum Confined Superlattices:The MTP in Quantum Wire HDSLsThe MTP in Quantum Dot HDSLsThe MTP in HDSLs Under Magnetic QuantizationPart III: Few Related Applications, Conclusions and Future Research and Appendices:Few Related ApplicationsConclusion and Scope for Future ResearchAppendices:The MTP Under Photo Excitation in HD Kane-Type SemiconductorsThe MTP in Doping Superlattices

of HD Non-Parabolic SemiconductorsThe MTP in QWHDSLs Under Magnetic QuantizationThe MTP in Accumulation and Inversion Layers of Non-Parabolic SemiconductorsThe MTP in HDs Under Cross-Fields ConfigurationThe MTP in Heavily Doped Ultra-Thin Films (HDUFs) Under Cross-Fields ConfigurationThe MTP in Doping Superlattices of HD Non-Parabolic Semiconductors Under Magnetic QuantizationThe MTP in Accumulation and Inversion Layers of Non-Parabolic Semiconductors Under Magnetic QuantizationThe MTP in QWHDSLsThe MTP under Intense Electric Field in HD Kane Type Semiconductors Readership: Graduate students, researchers and academics interested in advanced solid state physics and nanoelectronics. Keywords:Quantum Confined Structures;Heavily Doped;Nano-Structures;Opto-Electric Materials;Superlattices;Ternary Semiconductors;Quarternary Semiconductors;Low Dimensional Materials;Nonparabolic Semiconductors

Einstein's Photoemission Kamakhya Prasad Ghatak.2014-11-19 This monograph solely investigates the Einstein's Photoemission(EP) from Heavily Doped(HD) Quantized Structures on the basis of newly formulated electron dispersion laws. The materials considered are quantized structures of HD non-linear optical, III-V, II-VI, Ge, Te, Platinum Antimonide, stressed materials, GaP, Gallium Antimonide, II-V, Bismuth Telluride together with various types of HD superlattices and their Quantized counterparts respectively. The EP in HD opto-electronic materials and their nanostructures is studied in the presence of strong light waves and intense electric fields that control the studies of such quantum effect devices. The suggestions for the experimental determinations of different important physical quantities in HD 2D and 3D materials and the importance of measurement of band gap in HD optoelectronic materials under intense built-in electric field in nano devices and strong external photo excitation (for measuring physical

properties in the presence of intense light waves which alter the electron energy spectra) have also been discussed in this context. The influence quantizing magnetic field, on the EP of the different HD quantized structures (quantum wells, quantum well HD superlattices and nipi structures) under different physical conditions has been investigated. This monograph contains 100 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 materials science, condensed matter physics, solid-state sciences, nano-science and technology and allied fields in addition to the graduate courses in modern semiconductor nanostructures offered in different Universities and Institutes.

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Table of Contents Ultrathin

Magnetic Structures Iii Fundamentals Of

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