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Editors

ULTRATHIN III MAGNETIC STRUCTURES

Fundamentals
of Nanomagnetism

 Springer

Ultrathin Magnetic Structures Iii Fundamentals Of Nanomagnetism Pt 3

Kamakhya Prasad Ghatak,Jayita Pal



Ultrathin Magnetic Structures Iii Fundamentals Of Nanomagnetism Pt 3:

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

Ultrathin Magnetic Structures III J.A.C. Bland, Bretislav Heinrich, 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 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

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

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 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 stressed materials GaSb Te II V Bi Te 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

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 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 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 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 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

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

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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