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ULTRATHIN III MAGNETIC STRUCTURES

Fundamentals
of Nanomagnetism



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Ultrathin Magnetic Structures Iii Fundamentals Of Nanomagnetism Pt 3

Kamakhya Prasad Ghatak



Ultrathin Magnetic Structures Iii Fundamentals Of Nanomagnetism Pt 3:

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

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 **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.

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.

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 **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 *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 **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

Spin Dynamics and Damping in Ferromagnetic Thin Films and Nanostructures

Anjan Barman, Jaivardhan Sinha, 2017-12-27 This book provides a comprehensive overview of the latest developments in the field of spin dynamics and magnetic damping It discusses the various ways to tune damping specifically dynamic and static control in a ferromagnetic layer heavy metal layer In addition it addresses all optical detection techniques for the investigation of modulation of damping for example the time resolved magneto optical Kerr effect technique

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 *Principles of Nanomagnetism* Alberto P.

Guimarães,2017-07-10 The second edition of this book on nanomagnetism presents the basics and latest studies of low dimensional magnetic nano objects It highlights the intriguing properties of nanomagnetic objects such as thin films nanoparticles nanowires nanotubes nanodisks and nanorings as well as novel phenomena like spin currents It also describes how nanomagnetism was an important factor in the rapid evolution of high density magnetic recording and is developing into a decisive element of spintronics Further it presents a number of biomedical applications With exercises and solutions it serves as a graduate textbook **Ultrathin Magnetic Structures IV** Bretislav Heinrich,J.A.C. Bland,2010-10-13 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 *The British National Bibliography* Arthur James Wells,2005

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