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Magnetism in Condensed Matter

Stephen Blundell



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Magnetism In Condensed Matter Oxford Master Series In Physics

Jagannath Jena



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Magnetism in Condensed Matter Stephen Blundell, 2023 Starting from fundamental principles this copiously illustrated volume outlines the theory of magnetic behaviour describes experimental techniques and discusses current research topics

Magnetism in Condensed Matter Stephen Blundell, 2001-10-04 The superb book describes the modern theory of the magnetic properties of solids Starting from fundamental principles this copiously illustrated volume outlines the theory of magnetic behaviour describes experimental techniques and discusses current research topics The book is intended for final year undergraduate students and graduate students in the physical sciences

Structural and magnetic disorder in crystalline materials Davide Gambino, 2019-05-14 Disorder in crystalline materials can take different forms and originate from different sources In particular temperature introduces disorder in any kind of material This can be observed as the appearance of vacant lattice sites in an otherwise perfect crystal or as a random distribution of different elements on the same lattice in an alloy at the same time if the material is magnetic temperature induces disorder also on the magnetic degrees of freedom In this thesis different levels of disorder associated to structure and magnetism are investigated by means of density functional theory and thermodynamic models I start with diffusion of Ti vacancies in TiN which is studied by means of nonequilibrium ab initio molecular dynamics using the color diffusion algorithm at different temperatures The result is an Arrhenius behavior of Ti vacancy jump rates A method to perform structural relaxations in magnetic materials in their hightemperature paramagnetic phase is then developed based on the disordered local moments approach in order to study vacancies interstitial atoms and combinations of defects in paramagnetic bcc Fe and B1 CrN as well as the mixing enthalpy of bcc Fe_{1-x}Cr_x random alloys A correction to the energetics of every system due to the relaxation in the disordered magnetic state is observed in all cases Not related to temperature and disorder but very important for an accurate description of magnetic materials is the choice of the exchange and correlation functional to be employed in the first principles calculations We have investigated the performance of a recently developed meta GGA functional the strongly constrained and appropriately normed SCAN functional in comparison with the more commonly used LDA and PBE on the ferromagnetic elemental solids bcc Fe fcc Ni and hcp Co and SCAN it is found to give negligible improvements if not a worsening in the description of these materials Finally the coupling between vibrational and magnetic degrees of freedom is discussed by reviewing the literature and proposing an investigation of the influence of vibrations on longitudinal spin fluctuations These excitations are here studied by means of thermodynamic models based on Landau expansion of the energy in even powers of the magnitude of the local magnetic moments We find that vibrational and magnetic disorder alter the energy landscapes as a function of moment size also in bcc Fe which is often considered a Heisenberg system inducing a more itinerant electron behavior

Discovery of Co-existing Non-collinear Spin Textures in D2d Heusler Compounds Jagannath Jena, 2022-06-29 Non collinear spin textures have attracted significant attention due to their topological nature

emergent electromagnetic properties and potential spintronic and magnonic device applications This book explores the physical properties of distinct spin textures in D2d compounds The main goals of the work are a discovering new spin textures in D2d Heusler compounds and studying their detailed properties to enrich the field of non collinear magnetism b optimizing the nano track geometry and generating isolated and single chains of nano objects that will establish new hallmarks for technological applications c studying the stability of spin textures with magnetic fields and temperatures and finding a way to observe the striking behavior of spin textures near the specimen edges The first few chapters provide a brief overview of spin textures such as Bloch and N el skyrmions In the experimental methods section the author shows how to identify the single crystalline grains of a polycrystalline sample how to make single crystalline thin specimens and nano tracks and then provides explicit descriptions of different imaging techniques performed on a transmission electron microscope This part will be valuable for beginners wishing to conduct research in experimental nano magnetism and transmission electron microscope imaging The core results of the book are presented in four chapters describing the discovery of several new and unanticipated spin textures namely square shaped antiskyrmions elliptical Bloch skyrmions fractional antiskyrmions fractional Bloch skyrmions and elongated anti skyrmions in a single D2d Heusler compound It is shown that these textures can be understood by a combination of dipole dipole interactions and a chiral vector exchange that makes it possible to stabilize various spin textures even in the same compound The D2d compounds are the first non centrosymmetric systems shown to host several co existing non collinear spin textures

Physical Aspects of Therapeutics
Hartmut Zabel, 2023-04-27 The updated edition of the third of three vollumes on Medical Physics presents modern physical methods for medical therapy with a focus on tumor treatment It provides background information on radiation biology radiation response of tissues and linear energy transfer through radiation Therapies with external radiation sources x rays protons neutrons as well as internal radiation sources brachytherapy are discussed in detail Other chapters deal with the use of lasers and nanoparticles in modern medicine This volume closes with a short chapter on medical statistics NEW highlighted boxes emphasize specifi c topics math boxes explain more advanced mathematical issues each chapter concludes with a summary of the key concepts questions exercises and a self assessment of the acquired competence The appendix provides answers to questions and solutions to exercises

Structure of Matter Attilio Rigamonti, Pietro Carretta, 2007-04-29 Intended Audience Approach and Presentation This text is intended for a course of about fifteen weeks for undergraduate students It arises from the adaptation and the amendments to a text for a full year course in Structure of Matter written by one of the authors A R about thirty years ago At that time only a few if any textbooks having the suited form for introduction to basic quantum properties of atoms molecules and crystals in a comprehensive and interrelated way were available Along the last twenty years many excellent books pursuing the aforementioned aim have been published some of them are listed at the end of this preface Still there are reasons in our opinion to attempt a further text devoted to the

quantum roots of condensed matter properties A practical aspect in this regard involves the organization of the studies in Physics after the huge scientific outburst of the various topics of fundamental and technological character in recent decades In most Universities there is now a first period of three or four years common to all the students and devoted to elementary aspects followed by a more advanced program in rather specialized fields of Physics

Magnetic Memory Technology
Denny D. Tang, Chi-Feng Pai, 2021-01-07 STAY UP TO DATE ON THE STATE OF MRAM TECHNOLOGY AND ITS APPLICATIONS WITH THIS COMPREHENSIVE RESOURCE Magnetic Memory Technology Spin Transfer Torque MRAM and Beyond delivers a combination of foundational and advanced treatments of the subjects necessary for students and professionals to fully understand MRAM and other non volatile memories like PCM and ReRAM The authors offer readers a thorough introduction to the fundamentals of magnetism and electron spin as well as a comprehensive analysis of the physics of magnetic tunnel junction MTJ devices as it relates to memory applications This book explores MRAM's unique ability to provide memory without requiring the atoms inside the device to move when switching states The resulting power savings and reliability are what give MRAM its extraordinary potential The authors describe the current state of academic research in MRAM technology which focuses on the reduction of the amount of energy needed to reorient magnetization Among other topics readers will benefit from the book's discussions of An introduction to basic electromagnetism including the fundamentals of magnetic force and other concepts An thorough description of magnetism and magnetic materials including the classification and properties of magnetic thin film properties and their material preparation and characterization A comprehensive description of Giant magnetoresistance GMR and tunneling magnetoresistance TMR devices and their equivalent electrical model Spin current and spin dynamics including the properties of spin current the Ordinary Hall Effect the Anomalous Hall Effect and the spin Hall effect Different categories of magnetic random access memory including field write mode MRAM Spin Torque Transfer STT MRAM Spin Orbit Torque SOT MRAM and others Perfect for senior undergraduate and graduate students studying electrical engineering similar programs or courses on topics like spintronics Magnetic Memory Technology Spin Transfer Torque MRAM and Beyond also belongs on the bookshelves of engineers and other professionals involved in the design development and manufacture of MRAM technologies

Effective Electron Mass in Low-Dimensional Semiconductors
Sitangshu Bhattacharya, Kamakhya Prasad Ghatak, 2012-10-05 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

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

Introduction to Tensor Network Methods Simone

Montangero, 2018-11-28 This volume of lecture notes briefly introduces the basic concepts needed in any computational physics course software and hardware programming skills linear algebra and differential calculus It then presents more advanced numerical methods to tackle the quantum many body problem it reviews the numerical renormalization group and then focuses on tensor network methods from basic concepts to gauge invariant ones Finally in the last part the author presents some applications of tensor network methods to equilibrium and out of equilibrium correlated quantum matter The book can be used for a graduate computational physics course After successfully completing such a course a student should be able to write a tensor network program and can begin to explore the physics of many body quantum systems The book can also serve as a reference for researchers working or starting out in the field

Optical Properties of Solids Anthony Mark Fox, 2001 This book gives an introduction to the optical properties of solids including many new topics that have not been

previously covered in other solid state texts at this level The fundamental principles of absorption reflection luminescence and light scattering are discussed for a wide range of materials including crystalline insulators and semiconductors glasses metals and molecular materials Classical and quantum models are used where appropriate along with recent experimental data Examples include semiconductor quantum wells organic semiconductors vibronic solid state lasers and nonlinear optics

Microfluidics Yujun Song, Daojian Cheng, Liang Zhao, 2018-01-04 The first book offering a global overview of fundamental microfluidics and the wide range of possible applications for example in chemistry biology and biomedical science As such it summarizes recent progress in microfluidics including its origin and development the theoretical fundamentals and fabrication techniques for microfluidic devices The book also comprehensively covers the fluid mechanics physics and chemistry as well as applications in such different fields as detection and synthesis of inorganic and organic materials A useful reference for non specialists and a basic guideline for research scientists and technicians already active in this field or intending to work in microfluidics

Polymer Electronics Mark Geoghegan, Georges Hadziioannou, 2013-04-04 Polymer electronics lies behind many important new developments in technology such as the flexible electronic display e ink and modern transistor technology This book presents a thorough discussion of the physics and chemistry behind this exciting field appealing to all physical scientists with an interest in polymer electronics

Quantum Scaling in Many-Body Systems Mucio Continentino, 2017-04-17 Focusing on experimental results this updated edition approaches the problem of quantum phase transitions from a new and unifying perspective

Structure and Dynamics Martin T. Dove, 2003-03-06 This volume describes how the arrangement of atoms in a solid and the way they move are related to the forces between atoms It also discusses how this affects the behaviour and properties of materials

Fundamentals of the Physics of Solids Jenő Sólyom, 2007-09-19 This book is the first of a three volume series written by the same author It aims to deliver a comprehensive and self contained account of the fundamentals of the physics of solids In the presentation of the properties and experimentally observed phenomena together with the basic concepts and theoretical methods it goes far beyond most classic texts The essential features of various experimental techniques are also explained The text provides material for upper level undergraduate and graduate courses It will also be a valuable reference for researchers in the field of condensed matter physics

Progress in Optics Taco Visser, 2021-04-16 Progress in Optics Volume 66 highlights new advances in the field with this new volume presenting interesting chapters Each chapter is written by an international board of authors It contains five reviews of the latest developments in optics This volume covers medical imaging physical optics integrated optics and quantum optics Includes contributions from leading authorities in the field of optics Presents timely state of the art reviews on advances in optics

Elastic and Inelastic Scanning Tunneling Spectroscopy on Iron-Based Superconductors Jandke, Jasmin Maria, 2019-05-02 Within this work the pairing mechanism of conventional Pb and unconventional superconductors SrFe₂As_{1-x}Px₂FeSe FeSe STO was investigated experimentally by means of elastic and

inelastic tunneling spectroscopy at temperatures down to 30 mK The distinction between elastic and inelastic contributions to tunneling data was elaborated The results help to identify conventional phonon mediated and unconventional e g spin uctuation mediated superconductivity **Laser Physics** Simon Hooker,Colin Webb,2010-08-05 In this book the interaction of radiation and matter and the principles of laser operation are treated at a level suitable for fourth year undergraduate courses or introductory graduate courses in physics chemistry or engineering The factors which determine efficiency wavelength coverage output power and beam quality of the different classes of laser are treated both in terms of fundamental theory and practical construction aspects Details of established types of solid state semiconductor and gas lasers are examined together with the techniques that enable their output to be converted widely across the spectrum The latest advances in high power fibre lasers femtosecond lasers and X ray lasers are explained The text is liberally illustrated with more than 300 diagrams An extensive bibliography is provided together with numerical problems in each chapter Solutions are available via the web

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