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H. C. Siegmann

Magnetism

From Fundamentals
to Nanoscale
Dynamics



Springer

Magnetism From Fundamentals To Nanoscale Dynamics

Springer Series In Solid State Sciences

Robert A. Evarestov



Magnetism From Fundamentals To Nanoscale Dynamics Springer Series In Solid State Sciences:

Magnetism Joachim Stöhr, Hans Christoph Siegmann, 2007-01-19 This text book gives a comprehensive account of magnetism one of the oldest yet most vibrant fields of physics It spans the historical development the physical foundations and the continuing research underlying the subject The book covers both the classical and quantum mechanical aspects of magnetism and novel experimental techniques Perhaps uniquely it discusses spin transport and magnetization dynamics phenomena associated with atomically and spin engineered nano structures against the backdrop of spintronics and magnetic storage and memory applications The book is for students and serves as a reference for scientists in academia and research laboratories *Magnetism of Surfaces, Interfaces, and Nanoscale Materials* Robert E. Camley, Zbigniew Celinski, Robert L. Stamps, 2015-10-27 In the past 30 years magnetic research has been dominated by the question of how surfaces and interfaces influence the magnetic and transport properties of nanostructures thin films and multilayers The research has been particularly important in the magnetic recording industry where the giant magnetoresistance effect led to a new generation of storage devices including hand held memories such as those found in the ipod More recently transfer of spin angular momentum across interfaces has opened a new field for high frequency applications This book gives a comprehensive view of research at the forefront of these fields The frontier is expanding through dynamic exchange between theory and experiment Contributions have been chosen to reflect this giving the reader a unified overview of the topic Addresses both theory and experiment that are vital for gaining an essential understanding of topics at the interface between magnetism and materials science Chapters written by experts provide great insights into complex material Discusses fundamental background material and state of the art applications serving as an indispensable guide for students and professionals at all levels of expertise Stresses interdisciplinary aspects of the field including physics chemistry nanocharacterization and materials science Combines basic materials with applications thus widening the scope of the book and its readership Handbook of Nanophysics Klaus D. Sattler, 2010-09-17 Covering the key theories tools and techniques of this dynamic field Handbook of Nanophysics Principles and Methods elucidates the general theoretical principles and measurements of nanoscale systems Each peer reviewed chapter contains a broad based introduction and enhances understanding of the state of the art scientific content through fund **Handbook of Spin Transport and Magnetism** Evgeny Y. Tsymbal, Igor Zutic, 2016-04-19 In the past several decades the research on spin transport and magnetism has led to remarkable scientific and technological breakthroughs including Albert Fert and Peter Grunberg s Nobel Prize winning discovery of giant magnetoresistance GMR in magnetic metallic multilayers Handbook of Spin Transport and Magnetism provides a comprehensive bal **Quantum Theory of Magnetism** Robert M. White, 2007-01-23 Quantum Theory of Magnetism is the only book that deals with the phenomenon of magnetism from the point of view of linear response That is how does a magnetic material respond when excited by a magnetic field That field may be uniform or spatially varying static

or time dependent Previous editions have dealt primarily with the magnetic response This edition incorporates the resistive response of magnetic materials as well It also includes problems to test the reader s or student s comprehension The rationale for a book on magnetism is as valid today as it was when the first two editions of Quantum Theory of Magnetism were published Magnetic phenomena continue to be discovered with deep scientific implications and novel applications Since the Second Edition for example Giant Magneto Resistance GMR was discovered and the new field of spintronics is currently expanding Not only do these phenomena rely on the concepts presented in this book but magnetic properties are often an important clue to our understanding of new materials e g high temperature superconductors Their magnetic properties studied by susceptibility measurements nuclear magnetic resonance neutron scattering etc have provided insight to the superconductivity state This updated edition offers revised emphasis on some material as a result of recent developments and includes new material such as an entire chapter on thin film magnetic multilayers Researchers and students once again have access to an up to date classic reference on magnetism the key characteristic of many modern materials

Handbook of Magnetic Materials Ekkes H. Brück, 2018-11-21 Handbook of Magnetic Materials Volume 27 covers the expansion of magnetism over the last few decades and its applications in research notably the magnetism of several classes of novel materials that share the presence of magnetic moments with truly ferromagnetic materials The book is an ideal reference for scientists active in magnetism research providing readers with novel trends and achievements in magnetism Each article contains an extensive description given in graphical as well as tabular form with much emphasis placed on the discussion of the experimental material within the framework of physics chemistry and materials science Comprises topical review articles written by leading authorities Includes a variety of self contained introductions to a given area in the field of magnetism without requiring recourse to the published literature Introduces given topics in the field of magnetism Describes novel trends and achievements in magnetism

Magnetic Measurement Techniques for Materials Characterization Victorino Franco, Brad Dodrill, 2021-09-28 This book discusses the most commonly used techniques for characterizing magnetic material properties and their applications It provides a comprehensive and easily digestible collection and review of magnetic measurement techniques It also examines the underlying operating principles and techniques of magnetic measurements and presents current examples where such measurements and properties are relevant Given the pervasive nature of magnetic materials in everyday life this book is a vital resource for both professionals and students wishing to deepen their understanding of the subject

Synchrotron Radiation Science and Applications Andrea Di Cicco, Gabriele Giuli, Angela Trapananti, 2021-05-22 This book collects several contributions presented at the 2019 meeting of the Italian Synchrotron Radiation Society SILS held in Camerino Italy from 9 to 11 September 2019 Topics included are recent developments in synchrotron radiation facilities and instrumentation novel methods for data analysis applications in the fields of materials physics and chemistry Earth and environmental science coherence in x ray experiments The book is

intended for advanced students and researchers interested in synchrotron based techniques and their application in diverse fields

Heusler Alloys Claudia Felser, Atsufumi Hirohata, 2015-11-12 This book gives an overview of the physics of Heusler compounds ranging from fundamental properties of these alloys to their applications Especially Heusler compounds as half metallic ferromagnetic and topological insulators are important in condensed matter science due to their potential in magnetism and as materials for energy conversion The book is written by world leaders in this field It offers an ideal reference to researchers at any level

Electrons in Solids Hendrik Bluhm, Thomas Brückel, Markus Morgenstern, Gero Plessen, Christoph Stampfer, 2019-04-01 As a continuation of classical condensed matter physics texts this graduate textbook introduces advanced topics of correlated electron systems mesoscopic transport quantum computing optical excitations and topological insulators The book is focusing on an intuitive understanding of the basic concepts of these rather complex subjects

Quantum Chemistry of Solids Robert A. Evarestov, 2007-08-16 Quantum Chemistry of Solids delivers a comprehensive account of the main features and possibilities of LCAO methods for the first principles calculations of electronic structure of periodic systems The first part describes the basic theory underlying the LCAO methods applied to periodic systems and the use of wave function based Hartree Fock density based DFT and hybrid hamiltonians The translation and site symmetry consideration is included to establish connection between k space solid state physics and real space quantum chemistry methods in the framework of cyclic model of an infinite crystal The inclusion of electron correlation effects for periodic systems is considered on the basis of localized crystalline orbitals The possibilities of LCAO methods for chemical bonding analysis in periodic systems are discussed The second part deals with the applications of LCAO methods for calculations of bulk crystal properties including magnetic ordering and crystal structure optimization The discussion of the results of some supercell calculations of point defects in non metallic solids and of the crystalline surfaces electronic structure illustrates the efficiency of LCAO method for solids

X-Rays in Nanoscience Jinghua Guo, 2011-09-22 An up to date overview of the different x ray based methods in the hot fields of nanoscience and nanotechnology including methods for imaging nanomaterials as well as for probing the electronic structure of nanostructured materials in order to investigate their different properties Written by authors at one of the world s top facilities working with these methods this monograph presents and discusses techniques and applications in the fields of x ray scattering spectroscopy and microscope imaging The resulting systematic collection of these advanced tools will benefit graduate students postdocs as well as professional researchers

Spin Physics in Semiconductors Mikhail I. Dyakonov, 2008-07-18 The purpose of this collective book is to present a non exhaustive survey of sp related phenomena in semiconductors with a focus on recent research In some sense it may be regarded as an updated version of the Optical Orientation book which was entirely devoted to spin physics in bulk semiconductors During the 24 years that have elapsed we have witnessed on the one hand an extraordinary development in the wonderful semiconductor physics in two dimensions with the accompanying revolutionary applications On the other hand

during the last maybe 15 years there was a strong revival in the interest in spin phenomena in particular in low dimensional semiconductor structures While in the 1970s and 1980s the entire world population of researchers in the field never exceeded 20 persons now it can be counted by the hundreds and the number of publications by the thousands This explosive growth is stimulated to a large extent by the hopes that the electron and or nuclear spins in a semiconductor will help to accomplish the dream of factorizing large numbers by quantum computing and eventually to develop a new spin based electronics or spintronics Whether any of this will happen or not still remains to be seen Anyway these ideas have resulted in a large body of interesting and exciting research which is a good thing by itself The field of spin physics in semiconductors is extremely rich and interesting with many spectacular effects in optics and transport

Physical Acoustics in the Solid State Bruno

Lüthi, 2007-08-14 Suitable for researchers and graduate students in physics and material science Physical Acoustics in the Solid State reviews the modern aspects in the field including many experimental results especially those involving ultrasonics Practically all fields of solid state physics are covered metals semiconductors magnetism superconductivity different kinds of phase transitions low dimensional systems and the quantum Hall effect After a review of the relevant experimental techniques and an introduction to the theory of elasticity emphasizing the symmetry aspects applications in the various fields of condensed matter physics are presented Also treated are Brillouin scattering results and results from thermodynamic investigations such as thermal expansion and specific heat

Physics of Zero- and One-Dimensional Nanoscopic Systems

Sachindra Nath Karmakar, Santanu Kumar Maiti, Chowdhury Jayeeta, 2007-09-04 In recent years submicron and nanoscale systems have featured strongly on the research agenda due to the technological progress and new physics that have emerged from studies of ultra small systems A fundamental understanding of basic physical phenomena on the mesoscopic and nanoscopic scales is required to exploit the technological potential offered by these exotic materials The present book contains review like chapters by some of the leading experts in the field covering topics such as the Kondo effect electron transport disorder and quantum coherence with electron electron interaction persistent current thermoelectric phenomena etc in quantum dots quantum wires carbon nanotubes and more This book will be valuable to researchers and students in condensed matter physics

Green's Functions in Quantum Physics Eleftherios N. Economou, 2006-08-02

Of interest to advanced students this book focuses on Green's functions for obtaining simple and general solutions to basic problems in quantum physics It demonstrates the unifying formalism of Green's functions across many applications including transport properties carbon nanotubes and photonics and photonic crystals

Advances in Imaging and Electron Physics

, 2018-07-17 Advances in Imaging and Electron Physics Volume 207 merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all

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Low-Dimensional Molecular Metals Naoki Toyota, Michael Lang, Jens Müller, 2007-04-21 This monograph assimilates new research in the field of low dimensional metals It provides a detailed overview of the current status of research on quasi one and two dimensional molecular metals describing normal state properties magnetic field effects superconductivity and the phenomena of interacting p and d electrons It includes a number of findings likely to become standard material in future textbooks on solid state physics

Diffusion in Solids Helmut Mehrer, 2007-07-24 Diffusion is a vital topic in solid state physics and chemistry physical metallurgy and materials science Diffusion processes are ubiquitous in solids at elevated temperatures A thorough understanding of diffusion in materials is crucial for materials development and engineering This book first gives an account of the central aspects of diffusion in solids for which the necessary background is a course in solid state physics It then provides easy access to important information about diffusion in metals alloys semiconductors ion conducting materials glasses and nanomaterials Several diffusion controlled phenomena including ionic conduction grain boundary and dislocation pipe diffusion are considered as well Graduate students in solid state physics physical metallurgy materials science physical and inorganic chemistry or geophysics will benefit from this book as will physicists chemists metallurgists materials engineers in academic and industrial research laboratories

Particle Penetration and Radiation Effects Peter Sigmund, 2006-03-16 Drawing on the author's forty plus years of experience as a researcher in the interaction of charged particles with matter this book emphasizes the theoretical description of fundamental phenomena Special attention is given to classic topics such as Rutherford scattering the theory of particle stopping the statistical description of energy loss and multiple scattering and numerous more recent developments

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In a global driven by information and connectivity, the power of words has be more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Magnetism From Fundamentals To Nanoscale Dynamics Springer Series In Solid State Sciences**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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