SOLID-STATE SCIENCES

P. Mohn

# Magnetism in the Solid State

## An Introduction

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# Magnetism In The Solid State An Introduction Springer Series In Solidstate Sciences

Roman Boca

**Magnetism In The Solid State An Introduction Springer Series In Solidstate Sciences:**

*Magnetism in the Solid State* Peter Mohn,2002-11-13 This book presents a phenomenological approach to the field of solid state magnetism It surveys the various theories and discusses their applicability in different types of materials The text will be valuable as a text for graduate courses in magnetism and magnetic materials *Introduction to Frustrated Magnetism* Claudine Lacroix,Philippe Mendels,Frédéric Mila,2011-01-12 The field of highly frustrated magnetism has developed considerably and expanded over the last 15 years Issuing from canonical geometric frustration of interactions it now extends over other aspects with many degrees of freedom such as magneto elastic couplings orbital degrees of freedom dilution effects and electron doping Its is thus shown here that the concept of frustration impacts on many other fields in physics than magnetism This book represents a state of the art review aimed at a broad audience with tutorial chapters and more topical ones encompassing solid state chemistry experimental and theoretical physics *Introductory Solid State Physics with MATLAB Applications* Javier E. Hasbun,Trinanjan Datta,2019-10-08 Solid state physics the study and prediction of the fundamental physical properties of materials forms the backbone of modern materials science and has many technological applications The unique feature of this text is the MATLAB based computational approach with several numerical techniques and simulation methods included This is highly effective in addressing the need for visualization and a direct hands on approach in learning the theoretical concepts of solid state physics The code is freely available to all textbook users Additional Features Uses the pedagogical tools of computational physics that have become important in enhancing physics teaching of advanced subjects such as solid state physics Adds visualization and simulation to the subject in a way that enables students to participate actively in a hand on approach Covers the basic concepts of solid state physics and provides students with a deeper understanding of the subject matter Provides unique example exercises throughout the text Obtains mathematical analytical solutions Carries out illustrations of important formulae results using programming scripts that students can run on their own and reproduce graphs and or simulations Helps students visualize solid state processes and apply certain numerical techniques using MATLAB making the process of learning solid state physics much more effective Reinforces the examples discussed within the chapters through the use of end of chapter exercises Includes simple analytical and numerical examples to more challenging ones as well as computational problems with the opportunity to run codes create new ones or modify existing ones to solve problems or reproduce certain results **Introduction to the Electron Theory of Metals** Uichiro Mizutani,2001-06-14 The electron theory of metals describes how electrons are responsible for the bonding of metals and subsequent physical chemical and transport properties This textbook gives a complete account of electron theory in both periodic and non periodic metallic systems The author presents an accessible approach to the theory of electrons comparing it with experimental results as much as possible The book starts with the basics of one electron band theory and progresses to cover topics such as high Tc superconductors and quasicrystals The

relationship between theory and potential applications is also emphasized The material presented assumes some knowledge of elementary quantum mechanics as well as the principles of classical mechanics and electromagnetism This textbook will be of interest to advanced undergraduates and graduate students in physics chemistry materials science and electrical engineering The book contains numerous exercises and an extensive list of references and numerical data *Frontiers in Surface Science and Interface Science* C.B. Duke,E. Ward Plummer,2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date Frontiers in Surface and Interface Science a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection A Handbook of Magnetochemical Formulae Roman Boca,2012-02 Magnetochemistry is concerned with the study of magnetic properties in materials It investigates the relationship between the magnetic properties of chemical compounds and their atomic and molecular structure This rapidly growing field has a number of applications and the measuring and interpreting of magnetic properties is often conducted by scientists who are not specialists in the field Magnetochemistry requires complex mathematics and physics and so can be daunting for those who have not previously studied it in depth Aimed at providing a single source of information on magnetochemistry this book offers a comprehensive and contemporary review of the mathematical background and formula for predicting or fitting magnetic data including a summary of the theory behind magnetochemistry to help understand the necessary calculations Along with tables listing the key formula there is also a model of the magnetic functions showing the effect of individual magnetic parameters The clear structure and comprehensive coverage of all aspects of magnetochemistry will make this an essential book for advanced students and practitioners Provides comprehensive overview of the mathematical background of magnetochemistry Uses clear and accessible language so scientists in a variety of fields can utilize the information Detailed explanations of equations and formula A Course on Many-body Theory Applied to Solid-state Physics Charles Paul Enz,1992 The main aim of this book is to give a self contained and representative cross section through present day research in solid state physics This covers metallic and mesoscopic transport localization by disorder and superconductivity including questions related to high temperature superconductors and to heavy fermion systems An important part of the book is devoted to itinerant electron magnetism discussing paramagnons strong correlation magnetization fluctuations and spin density waves All the formal tools used in these chapters are developed in the first part of the book which contains a

thorough discussion of second quantization and of perturbation theory for an arbitrary complex time path and also describes the functional approach to Feynman diagrams including general ward identities Each chapter contains an extensive list of the relevant literature and a series of problems with detailed solutions which complement the main text The book is meant both as a course and a research tool Advanced Functional Materials Biplab Sanyal,2012-10-03 This book deals with functional materials that are in the frontiers of current materials science and technology research development and manufacture The first of its kind it deals with three classes of materials 1 magnetic semiconductors 2 multiferroics and 3 graphene Because of the wide popularity of these materials there is a strong need for a book about these materials for graduate students new researchers in science and technology as well as experienced scientists and technologists technology based companies and government institutes for science and technology The book will provide this broad audience with both theoretical and experimental understanding to help in technological advances in the development of devices and related new technologies based on these very interesting and novel materials Covers both the theoretical and experimental aspects of advanced functional materials which are important for use in a number of rapidly developing novel technological devices Includes excellent coverage of three of the leading advanced functional materials Edited by a leading expert at the forefront of advanced functional materials research Introductory Solid State Physics David C. Johnston,2025-05-29 Introductory Solid State Physics An Emphasis on Magnetism acts as a supplement to students tackling solid state physics at both the undergraduate and graduate level The BCS theory of superconductivity is not included in undergraduate level books because the theory is derived at the graduate level However this book uses the equations derived by BCS to calculate the thermodynamic properties of superconductors such as the temperature dependence of the heat capacity using techniques accessible to undergraduates Also covering topics such as wave diffraction the essentials of thermodynamics statistical mechanics and local moment magnetism it is useful for those studying solid state physics at any level Key Features Includes the BCS theory of superconductivity Provides material that is accessible to students at all levels Approaches the subject with a particular emphasis on magnetism *Spintronics Handbook, Second Edition: Spin Transport and Magnetism* Evgeny Y. Tsymbal,Igor Žutić,2019-06-26 Spintronics Handbook Second Edition offers an update on the single most comprehensive survey of the two intertwined fields of spintronics and magnetism covering the diverse array of materials and structures including silicon organic semiconductors carbon nanotubes graphene and engineered nanostructures It focuses on seminal pioneering work together with the latest in cutting edge advances notably extended discussion of two dimensional materials beyond graphene topological insulators skyrmions and molecular spintronics The main sections cover physical phenomena spin dependent tunneling control of spin and magnetism in semiconductors and spin based applications Features Presents the most comprehensive reference text for the overlapping fields of spintronics spin transport and magnetism Covers the full spectrum of materials and structures from silicon and organic semiconductors to carbon nanotubes graphene and engineered

nanostructures Extends coverage of two dimensional materials beyond graphene including molybdenum disulfide and study of their spin relaxation mechanisms Includes new dedicated chapters on cutting edge topics such as spin orbit torques topological insulators half metals complex oxide materials and skyrmions Discusses important emerging areas of spintronics with superconductors spin wave spintronics benchmarking of spintronics devices and theory and experimental approaches to molecular spintronics Evgeny Tsymbal s research is focused on computational materials science aiming at the understanding of fundamental properties of advanced ferromagnetic and ferroelectric nanostructures and materials relevant to nanoelectronics and spintronics He is a George Holmes University Distinguished Professor at the Department of Physics and Astronomy of the University of Nebraska Lincoln UNL Director of the UNL s Materials Research Science and Engineering Center MRSEC and Director of the multi institutional Center for NanoFerroic Devices CNFD Igor uti received his Ph D in theoretical physics at the University of Minnesota His work spans a range of topics from high temperature superconductors and ferromagnetism that can get stronger as the temperature is increased to prediction of various spin based devices He is a recipient of 2006 National Science Foundation CAREER Award 2005 National Research Council American Society for Engineering Education Postdoctoral Research Award and the National Research Council Fellowship 2003 2005 His research is supported by the National Science Foundation the Office of Naval Research the Department of Energy and the Airforce Office of Scientific Research Transition Metal Compounds Daniel I. Khomskii,2014-10-23 Describing all aspects of the physics of transition metal compounds this book provides a comprehensive overview of this unique and diverse class of solids Beginning with the basic concepts of the physics of strongly correlated electron systems the structure of transition metal ions and the behaviours of transition metal ions in crystals it goes on to cover more advanced topics such as metal insulator transitions orbital ordering and novel phenomena such as multiferroics systems with oxygen holes and high Tc superconductivity Each chapter concludes with a summary of key facts and concepts presenting all the most important information in a consistent and concise manner Set within a modern conceptual framework and providing a complete treatment of the fundamental factors and mechanisms that determine the properties of transition metal compounds this is an invaluable resource for graduate students researchers and industrial practitioners in solid state physics and chemistry materials science and inorganic chemistry **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 Sk ld 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 **Innovative Graphene Technologies** Atul Tiwari,2013-03-20 Graphene as a nanomaterial has a unique place among existing high performance materials Being a member of the carbon family the expectation from this material is high Several thousand research papers have already explored the possible applications of graphene however its commercial application has yet to be realised Such a large volume of research publications have appeared on graphene that the basic important information is hard to excavate In order to collect vital information on graphene this book is compiled in two volumes Volume 1 is specifically meant for beginners who want to understand the science and technology associated with the nanomaterial The first objective of this book is to furnish detailed information on the manufacturing or syntheses of graphene and related materials in the lab without the need for special equipment The chapters are written systematically so that it is easy to understand the science engineering and technology behind the material The second objective is to deliver information on the different techniques used to characterise graphene and related materials The content of the book is carefully designed so that readers can easily understand the new technologies being used to investigate graphene The book is written for a large readership including scholars and researchers from diverse backgrounds such as chemistry physics materials science and engineering It can be used as a textbook for both undergraduate and graduate students and also as a review or reference book by researchers in the fields of materials science engineering and nanotechnology *Spintronics* Jean-Philippe Ansermet,2024-08-13 A sound understanding of magnetism transport theory spin relaxation mechanisms and magnetization dynamics is necessary to engage in spintronics research In this primer special effort has been made to give straightforward explanations for these advanced concepts This book will be a valuable resource for graduate students in spintronics and related fields Concepts of magnetism such as exchange interaction spin orbit coupling spin canting and magnetic anisotropy are introduced Spin dependent transport is described using both thermodynamics and Boltzmann s equation including Berry curvature corrections Spin relaxation phenomenology is accounted for with master equations for quantum spin systems coupled to a bath Magnetic resonance principles are applied to describe spin waves in ferromagnets cavity mode coupling in antiferromagnets and coherence phenomena relevant to spin

qubits applications Key Features A pedagogical approach to foundational concepts in spintronics with simple models that can be calculated to enhance understanding Nineteen chapters each beginning with a historical perspective and ending with an outlook on current research 1200 references ranging from landmark papers to frontline publications Jean Philippe Ansermet is Professor Emeritus at cole Polytechnique F d rale de Lausanne EPFL where he pioneered experiments on giant magnetoresistance current induced magnetization switching heat driven spin torque and nuclear magnetic resonance He taught mechanics thermodynamics and spin dynamics for more than twenty years A fellow of the American Physical Society and recipient of the 2022 Credit Suisse Teaching Award he was an executive board member of the European Physical Society president of the Swiss Physical Society and teaching director at EPFL He has authored or co authored textbooks on mechanics and thermodynamics and published more than two hundred articles *Handbook of Solid State Chemistry, 6 Volume Set* Richard Dronskowski,Shinichi Kikkawa,Andreas Stein,2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who s Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations **Gateway to Condensed Matter Physics and Molecular Biophysics** Ranjan Chaudhury,2021-12-22 This new volume provides the necessary background material and brings into focus the fundamental concepts essential for advanced research in theoretical condensed matter physics and its interface with molecular biophysics It is the outcome of the author s long teaching and research career in theoretical condensed matter physics and related interdisciplinary fields The author aims to motivate students to take up research in condensed matter physics and march toward new frontiers He writes My long understanding of students attitude and orientation brings me to the conclusion that many of them are quite excited about the developments in the frontier research areas at the beginning of their career however a sizeable fraction of them start losing interest gradually as they are often unable to connect these developments with the basic physics they have studied I have tried to fill this gap in this book To this end special care has been taken to balance the physical concepts and mathematical expressions as well as proper mixing of theoretical and experimental aspects He starts with the very well known elementary ideas or basic concepts and goes forward so as to remove the apparent conceptual and technical gap between the known laws and various interesting challenging and novel experimental results and effects some of which are amongst the latest discoveries Key features

Introduces a new way of looking at various important and fundamental phenomena in condensed matter from the perspective of microscopic theory Explores a new interface of quantum condensed matter physics and molecular biophysics highlighting research potentialities Addresses the crucial questions surrounding these phenomena when they are mutually coexisting or competing in real condensed matter systems or materials from both theoretical and experimental angles Deals with biological molecules and some of their properties and processes and discusses the modeling of these with the help of condensed matter physics and statistical physics Emphasizes fundamental concepts particularly in condensed matter physics and making proper use of them Apatites and their Synthetic Analogues Petr Ptáček,2016-04-13 Apatite type minerals and their synthetic analogues are of interest of many industrial branches and scientific disciplines including material sciences chemical industry agriculture geology medicine and dentistry This book provides a basic overview of general knowledges of this topic in order to provide the comprehensive survey from a scientific and technological perspective The book is divided into 10 chapters which are devoted to the structure and properties of minerals from the supergroup of apatite experimental techniques of preparation and characterization of synthetic analogues of apatite minerals substitution in the structure of apatite as well as utilization of these materials in wide range of common and special advanced applications in industry material sciences and research Additionally the phosphate rocks their classification geological role mining and beneficiation of phosphate ore production of elemental phosphorus phosphoric acid and fertilizers are also described Although this book is meant for chemist material scientist and research engineers the individual chapters contain theoretical background historical aspects as well as examples of synthetic and analytical methods which may be also interesting for students and non expert readers as well Proceedings of the 11th International Conference on Vacuum Ultraviolet Radiation Physics T. Miyahara,Y. Azuma,M. Watanabe,T. Ishii,2012-12-02 These volumes contain 365 of the 505 papers presented at the VUV 11 Conference held at Rikkyo University Tokyo from August 27th to September 1st 1995 The papers are divided into three sections atomic and molecular spectroscopy solid state spectroscopy and instrumentation and technological applications New aspects presented were both quantitative and qualitative improvements in fluorescence spectroscopy and magnetic circular dichroism measurements The fluorescence data are complementary to those of photoemission in a sense but they appear to open up a new method to analyze the optical excitation and relaxation processes The application of magnetic circular dichroism has proved to be useful not only in analyzing the electronic structures of magnetic materials but also in practical applications to material engineering as found in experiments combined with photoelectron microscopy Excellent developments in applications are only found in the field of surface photochemistry where the technique of etching using VUV light has been appreciably refined Although the majority of distinctive scientific features in the VUV 11 Conference have been brought about by the application of synchrotron radiation experiments using a different type of light source appear to have progressed steadily This is evident in the studies of plasma radiation *Bookseller and the Stationery Trades' Journal*

,1983 Practical Guide to Materials Characterization Khalid Sultan,2022-09-08 Practical Guide to Materials Characterization Practice oriented resource providing a hands on overview of the most relevant materials characterization techniques in chemistry physics engineering and more Practical Guide to Materials Characterization focuses on the most widely used experimental approaches for structural morphological and spectroscopic characterization of materials providing background insights on the correct usage of the respective techniques and the interpretation of the results With a focus on practical applications the work illustrates what to use and when including real life examples showing which characterization techniques are best suited for particular purposes Furthermore the work covers the practical elements of the analytical techniques used to characterize a wide range of functional materials both in bulk as well as thin film form in a simple but thorough manner To aid in reader comprehension Practical Guide to Materials Characterization is divided into eight distinct chapters To set the stage the first chapter of the book reviews the fundamentals of materials characterization that are necessary to understand and use the methods presented in the ensuing chapters Among the techniques covered are X ray diffraction Raman spectroscopy X ray spectroscopy electron microscopies magnetic measurement techniques infrared spectroscopy and dielectric measurements Specific sample topics covered in the remaining seven chapters include Bragg s Law the Von Laue Treatment Laue s Equation the Rotating Crystal Method the Powder Method orientation of single crystals and structure of polycrystalline aggregates Classical theory of Raman scattering quantum theory of Raman spectroscopy high pressure Raman spectroscopy and surface enhanced Raman spectroscopy Basic principles of XAS energy referencing XPS spectra and its features Auger Electron Spectroscopy AES and interaction of electrons with matter Magnetization measuring instruments the SQUID magnetometer and the advantages and disadvantages of vibrating sample magnetometer VSM With comprehensive and in depth coverage of the subject Practical Guide to Materials Characterization is a key resource for practicing professionals who wish to better understand key concepts in the field and seamlessly harness them in a myriad of applications across many different industries

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