

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

**Joachim Stöhr, Hans Christoph
Siegmann**



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.

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.

Modern Theory of Magnetism in Metals and Alloys Yoshiro Kakehashi, 2013-01-11 This book describes theoretical aspects of the metallic magnetism from metals to disordered alloys to amorphous alloys both at the ground state and at finite temperatures. The book gives an introduction to the metallic magnetism and treats effects of electron correlations on magnetism, spin fluctuations in metallic magnetism, formation of complex magnetic structures, a variety of magnetism due to configurational disorder in alloys as well as a new magnetism caused by the structural disorder in amorphous alloys, especially the itinerant electron spin glasses. The readers will find that all these topics can be understood systematically by means of the spin fluctuation theories based on the functional integral method.

Solid · State Magnetism John Crangle, 2012-12-06 Solid state magnetism is important and attempts to understand magnetic properties have led to an increasingly deep insight into the fundamental make up of solids. Both experimental and theoretical research into magnetism continue to be very active yet there is still much ground to cover before there can be a full understanding. There is a strong interplay between the developments of materials science and of magnetism. Hundreds of new materials have been discovered, often with previously unobserved and puzzling magnetic properties. A large and growing technology exists that is based on the magnetic properties of materials. Very many devices used in everyday life involve magnetism and new applications are being invented all the time. Understanding the fundamental background to the applications is vital to using and developing them. The aim of this book is to provide a simple up to date introduction to the study of solid state magnetism, both intrinsic and technical. It is designed to meet the needs and interests of advanced undergraduate students, reading physics of postgraduates in physical and materials sciences and in engineering and also those of the practising scientist specializing in another area who requires an introduction to magnetism.

Magnetism and the Electronic Structure of Crystals Vladimir A. Gubanov, Alexandr I. Liechtenstein, Andrei V. Postnikov, 2012-12-06 The quantum theory of magnetism is a well developed part of contemporary solid state physics. The basic concepts of this theory can be used to describe such important effects as ferromagnetic ordering

of localized magnetic moments in crystals and ferromagnetism of metals produced by essentially delocalized electrons as well as various types of mutual orientation of atomic magnetic moments in solids possessing different crystal lattices and compositions. In recent years the spin fluctuational approach has been developed which can overcome some contradictions between localized and itinerant models in the quantum mechanics of magnetic crystals. These are only some of the principal achievements of quantum magnetic theory. Almost all of the known magnetic properties of solids can be qualitatively explained on the basis of its concepts. Further developments should open up the possibility of reliable quantitative description of magnetic properties of solids. Unfortunately such calculations based on model concepts appear to be very complicated and quite often not definite enough. The rather small number of parameters of qualitative models are usually not able to take into account the very different types of magnetic interactions that appear in crystals. Further development of magnetic theory requires quantitative information on electronic wave function in the crystal considered. This can be proved by electronic band structure and cluster calculations. In many cases the latter can be a starting point for quantitative calculations of parameters used in magnetic theory.

Environmental Health Perspectives, 1993 Conductors, Semiconductors, Superconductors

Rudolf P. Huebener, 2015-11-05 This undergraduate textbook provides an introduction to the fundamentals of solid state physics including a description of the key people in the field and the historic context. The book concentrates on the electric and magnetic properties of materials. It is written for students up to the bachelor level in the fields of physics, materials science and electric engineering. Because of its vivid explanations and its didactic approach it can also serve as a motivating pre stage and supporting companion in the study of the established and more detailed textbooks of solid state physics. The textbook is suitable for a quick repetition prior to examinations. This second edition is extended considerably by detailed mathematical treatments in many chapters as well as extensive coverage of magnetic impurities.

Introduction to Solid-State Theory Otfried Madelung, 1997-05-01 Introduction to Solid State Theory is a textbook for graduate students of physics and materials science. It also provides the theoretical background needed by physicists doing research in pure solid state physics and its applications to electrical engineering. The fundamentals of solid state theory are based on a description by delocalized and localized states and within the concept of delocalized states by elementary excitations. The development of solid state theory within the last ten years has shown that by a systematic introduction of these concepts large parts of the theory can be described in a unified way. This form of description gives a pictorial formulation of many elementary processes in solids which facilitates their understanding.

Solid-State Physics James Deane Patterson, Bernard C. Bailey, 2007

Learning solid state physics involves a certain degree of maturity since it involves tying together diverse concepts from many areas of physics. The objective is to understand in a basic way how solid materials behave. To do this one needs both a good physical and mathematical background. One definition of solid state physics is that it is the study of the physical e.g. the electrical, dielectric, magnetic, elastic and thermal properties of solids in terms of basic physical laws. In one sense solid state

physics is more like chemistry than some other branches of physics because it focuses on common properties of large classes of materials. It is typical that solid state physics emphasizes how physics properties link to electronic structure. We have retained the term solid state physics even though condensed matter physics is more commonly used. Condensed matter physics includes liquids and non crystalline solids such as glass which we shall not discuss in detail. Modern solid state physics came of age in the late thirties and forties and had its most extensive expansion with the development of the transistor, integrated circuits and microelectronics. Most of microelectronics however is limited to the properties of inhomogeneously doped semiconductors. Solid state physics includes many other areas of course among the largest of these are ferromagnetic materials and superconductors. Just a little less than half of all working physicists are in condensed matter. A course in solid state physics typically begins with three broad areas: 1 How and why atoms bind together to form solids, 2 Lattice vibrations and phonons, and 3 Electrons in solids. One would then typically apply the above to: 4 Interactions especially of electrons with phonons, 5 Metals, the Fermi surface and alloys, 6 Semiconductors, 7 Magnetism, 8 Superconductivity, 9 Dielectrics and ferroelectrics, 10 Optical properties, 11 Defects, and 12 Certain other modern topics such as layered materials, quantum Hall effect, mesoscopics, nanophysics and soft condensed matter. In this book we will consider all of these.

THEORY OF MAGNETISM, Kei Yosida, 1996-06-04. Translated from the Japanese, this title is the first modern book on magnetism, a topic of increasing importance. The book provides the foundation for further development in this field, covering magnetic ions in crystals and magnetism of spin systems, metals and dilute alloys. Spin Fluctuations in Itinerant Electron Magnetism, Toru Moriya, 2012-12-06. Ferromagnetism of metallic systems, especially those including transition metals, has been a controversial subject of modern science for a long time. This controversy stems from the apparent dual character of the d electrons responsible for magnetism in transition metals: i.e. they are itinerant electrons described by band theory in their ground state, while at finite temperatures they show various properties that have long been attributed to a system consisting of local magnetic moments. The most familiar example of these properties is the Curie Weiss law of magnetic susceptibility obeyed by almost all ferromagnets above their Curie temperatures. At first the problem seemed to be centered around whether the d electrons themselves are localized or itinerant. This question was settled in the 1950s and early 1960s by various experimental investigations, in particular by observations of d electron Fermi surfaces in ferromagnetic transition metals. These observations are generally consistent with the results of band calculations. Theoretical investigations since then have concentrated on explaining this dual character of d electron systems, taking account of the effects of electron-electron correlations in the itinerant electron model. The problem in physical terms is to study the spin density fluctuations which are neglected in the mean field or one electron theory and their influence on the physical properties. **Physical Acoustics in the Solid State**, Bruno Lüthi, 2005-01-07. 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

Electronic Structure of Strongly Correlated Materials Vladimir Anisimov, Yuri Izyumov, 2010-07-23 Electronic structure and physical properties of strongly correlated materials containing elements with partially filled 3d 4d 4f and 5f electronic shells is analyzed by Dynamical Mean Field Theory DMFT DMFT is the most universal and effective tool used for the theoretical investigation of electronic states with strong correlation effects In the present book the basics of the method are given and its application to various material classes is shown The book is aimed at a broad readership theoretical physicists and experimentalists studying strongly correlated systems It also serves as a handbook for students and all those who want to be acquainted with fast developing field of condensed matter physics

Superconductivity and Electromagnetism Teruo Matsushita, 2021-02-23 This book introduces readers to the characteristic features of electromagnetic phenomena in superconductivity It first demonstrates not only that the diamagnetism in the superconductivity complies with Maxwell's theory which was formulated before the discovery of superconductivity but also that the dominant E B analogy in the electromagnetism loses perfection without the superconductivity The book then explores flux pinning which is responsible for the non dissipative current in DC leading to irreversibility in AC Drawing on Maxwell's work it also proves theoretically that if there is no energy dissipation in the superconductivity caused by the break in time reversal symmetry it contradicts the thermodynamic principle of energy conservation something that had previously only been proved experimentally Lastly the book addresses the longitudinal magnetic field effect and explains how this phenomenon leads to a new development of Maxwell's theory Featuring numerous appendices to help readers understand the methods of derivation of equations this book offers students and young scientists an introduction to applied superconductivity especially in the context of power applications Presenting the characteristic features of electromagnetic phenomena in superconductivity from basic to advanced topics for applications the book offers a valuable resource for graduate students and researchers studying superconductivity as well as engineers working in electric utility industry

Solid State Physics John J. Quinn, Kyung-Soo Yi, 2009-09-18 Intended for a two semester advanced undergraduate or graduate course in Solid State Physics this treatment offers modern coverage of the theory and related experiments including the group theoretical approach to band structures Moessbauer recoil free fraction semi classical electron theory magnetoconductivity electron self energy and Landau theory of Fermi liquid and both quantum and fractional quantum Hall effects Integrated throughout are developments from the newest semiconductor devices e g space charge layers quantum wells and superlattices The first half includes all material usually

covered in the introductory course but in greater depth than most introductory textbooks The second half includes most of the important developments in solid state researches of the past half century addressing e.g. optical and electronic properties such as collective bulk and surface modes and spectral function of a quasiparticle which is a basic concept for understanding LEED intensities X-ray fine structure spectroscopy and photoemission So both the fundamental principles and most recent advances in solid state physics are explained in a class tested tutorial style with end of chapter exercises for review and reinforcement of key concepts and calculations

Introduction to Magnetism and Magnetic Materials David Jiles, 2015-09-18 A long overdue update this edition of *Introduction to Magnetism and Magnetic Materials* is a complete revision of its predecessor While it provides relatively minor updates to the first two sections the third section contains vast updates to reflect the enormous progress made in applications in the past 15 years particularly in magnetic recording

The Theory of Magnetism I Daniel C. Mattis, 2012-12-06 Starting with a historical introduction to the study of magnetism one of the oldest sciences known to man before considering the most modern theories and observations magnetic bubbles and soap films effects of magnetic impurities in metals and spin glasses this book develops the concepts and the mathematical expertise necessary to understand contemporary research in this field Magnetic systems are important in technology and applied science but they are also prototypes of more complex mathematical structures of great importance to theoretical physics These connections are made repeatedly in this volume After development of the necessary quantum theory of angular momentum and of interacting electron systems a number of models which have been successful in the interpretation of experimental results are introduced the Ising model the Heisenberg model the Stoner theory the Kondo phenomenon and so on In the second edition the thorough approach and the main features which made the first edition a popular text have been retained All important theories are worked out in detail using methods and notation that are uniform throughout Footnotes and an extensive bibliography provide a guide to the original literature A number of problems test the reader's skill

Introduction to the Physics of Matter Nicola Manini, 2020-10-20 This is the second edition of a well received book It provides an up to date concise review of essential topics in the physics of matter from atoms and molecules to solids including elements of statistical mechanics It features over 160 completely revised and enhanced figures illustrating the main physical concepts and the fundamental experimental facts and discusses selected experiments mainly in spectroscopy and thermodynamics within the general framework of the adiabatic separation of the motions of electrons and nuclei The book focuses on what can be described in terms of independent particle models providing the mathematical derivations in sufficient detail for readers to grasp the relevant physics involved The final section offers a glimpse of more advanced topics including magnetism and superconductivity sparking readers curiosity to further explore the latest developments in the physics of matter

Fundamentals of Solid State Engineering M. Razeghi, 2002 *Fundamentals of Solid State Engineering* 2nd Edition provides a multi disciplinary introduction to solid state engineering combining concepts from

physics chemistry electrical engineering materials science and mechanical engineering Revised throughout this third edition includes new topics such as electron electron and electron phonon interactions in addition to the Kane effective mass method A chapter devoted to quantum mechanics has been expanded to cover topics such as the harmonic oscillator the hydrogen atom the quantum mechanical description of angular momentum and the origin of spin This textbook also features an improved transport theory description which now goes beyond Drude theory discussing the Boltzmann approach Introducing students to the rigorous quantum mechanical way of thinking about and formulating transport processes this textbook presents the basic physics concepts and thorough treatment of semiconductor characterization technology designed for solid state engineers Publisher's website [Solid State Physics](#) Giuseppe Grosso, Giuseppe Pastori Parravicini, 2013-10-17 Solid State Physics is a textbook for students of physics material science chemistry and engineering It is the state of the art presentation of the theoretical foundations and application of the quantum structure of matter and materials This second edition provides timely coverage of the most important scientific breakthroughs of the last decade especially in low dimensional systems and quantum transport It helps build readers understanding of the newest advances in condensed matter physics with rigorous yet clear mathematics Examples are an integral part of the text carefully designed to apply the fundamental principles illustrated in the text to currently active topics of research Basic concepts and recent advances in the field are explained in tutorial style and organized in an intuitive manner The book is a basic reference work for students researchers and lecturers in any area of solid state physics Features additional material on nanostructures giving students and lecturers the most significant features of low dimensional systems with focus on carbon allotropes Offers detailed explanation of dissipative and nondissipative transport and explains the essential aspects in a field which is commonly overlooked in textbooks Additional material in the classical and quantum Hall effect offers further aspects on magnetotransport with particular emphasis on the current profiles Gives a broad overview of the band structure of solids as well as presenting the foundations of the electronic band structure Also features reported with new and revised material which leads to the latest research

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