

SOLID-STATE SCIENCES

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Magnetism in the Solid State

An Introduction

 Springer

Magnetism In The Solid State An Introduction

Harald Ibach, Hans Lüth



Magnetism In The Solid State An Introduction:

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 in the Solid State* Peter Mohn, 2009-09-02 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. **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. Solid State Physics Philip Hofmann, 2015-05-26 A must have textbook for any undergraduate studying solid state physics. This successful brief course in solid state physics is now in its second edition. The clear and concise introduction not only describes all the basic phenomena and concepts but also such advanced issues as magnetism and superconductivity. Each section starts with a gentle introduction covering basic principles progressing to a more advanced level in order to present a comprehensive overview of the subject. The book is providing qualitative discussions that help undergraduates understand concepts even if they can't follow all the mathematical detail. The revised edition has been carefully updated to present an up to date account of the essential topics and recent developments in this exciting field of physics. The coverage now includes ground breaking materials with high relevance for applications in communication and energy like graphene and topological insulators as well as transparent conductors. The text assumes only basic mathematical knowledge on the part of the reader and includes more than 100 discussion questions and some 70 problems with solutions free to lecturers from the Wiley VCH website. The author's webpage provides Online Notes on x ray scattering elastic constants the quantum Hall effect tight binding model atomic magnetism and topological insulators. This new edition includes the following updates and new features. Expanded coverage of mechanical properties of solids including

an improved discussion of the yield stress Crystal structure mechanical properties and band structure of graphene The coverage of electronic properties of metals is expanded by a section on the quantum hall effect including exercises New topics include the tight binding model and an expanded discussion on Bloch waves With respect to semiconductors the discussion of solar cells has been extended and improved Revised coverage of magnetism with additional material on atomic magnetism More extensive treatment of finite solids and nanostructures now including topological insulators Recommendations for further reading have been updated and increased New exercises on Hall mobility light penetrating metals band structure

Solid State Physics David Schmool, 2016-08-09 This broad introduction to some of the principal areas of the physical phenomena in solid materials includes the electronic mechanical magnetic and optical properties of all materials These subjects are treated in depth and provide the reader with the tools necessary for an understanding of the varied phenomena of materials Particular emphasis is given to the reaction of materials to specific stimuli such as the application of electric and magnetic fields The final chapter of the book provides a broad introduction to nanotechnologies and uses some of the main tools of solid state physics to explain the behavior of nanomaterials and why they are of importance for future technologies

Solid-State Physics James Patterson, Bernard Bailey, 2007-08-06 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 SOLID

STATE PHYSICS V K BABBAR,1997 This book presents a comprehensive introduction to Solid State Physics for undergraduate students of pure and applied sciences and engineering disciplines It acquaints the students with the fundamental properties of solids starting from their properties The coverage of basic topics is developed in terms of simple physical phenomenon supplemented with theoretical derivations and relevant models which provides strong grasp of the fundamental principles of physics in solids in a concise and self explanatory manner *Solid-State Physics* Harald Ibach,Hans Lüth,2012-12-06 In recent decades solid state physics has seen many dramatic new developments and has become one of the largest independent branches of physics It has simultaneously expanded into many new areas playing a vital role in fields that were once the domain of the engineering and chemical sciences A consequence of this explosive development is that no single university lecturer can today be expected to have a detailed knowledge of all aspects of this vast subject likewise it is impossible to conceive of a course that could offer students a comprehensive understanding of the entire discipline and its many applications In view of this situation it is particularly valuable to have a textbook that gives a concise account of the essential elements of the physics of solids In this book the fundamental aspects of solid state physics are presented according to the scheme Chemical bonding structure lattice dynamics and electronic properties We believe that this sequence is the optimum choice for tutorial purposes It enables the more difficult concepts to be introduced at a point where a basic understanding of fundamental ideas has already been achieved through the study of simple models and examples In addition to this carefully structured exposition of classical solid state theory based on the periodic solid and the one electron approximation the book also includes comprehensive descriptions of the most active areas in modern research Magnetism superconductivity and semiconductor physics *Fundamentals of Magnetism and Spintronics* Atowar Rahman,2022-09-07 Fundamentals of Magnetism and Spintronics develops the idea of magnetism understand its sources and other related matters step by step Fundamentals of Magnetism and Spintronics describes microscopic sources of magnetic field and explains why different bodies behave differently in the presence of an external magnetic field Different topics in Magnetism and Spintronics have been presented in simple ways using simple mathematics The objectives are to cover the basic concepts of Magnetism and Spintronics using simple models and to provide coverage of the subject matter as far as possible Chapters 1 to 3 have been devoted to define the microscopic source of magnetism and to define fundamental parameters of magnetism Chapter 4 to Chapter 11 have been devoted for the general properties of magnetic materials There has been tremendous research in the field of material science and magnetism and as a result remarkable success has been achieved in magnetic storage technology A new subject known as spintronics or magneto electronics has come up which is a novel kind of union of elements of material science magnetism and electrical engineering with a goal to create devices and architectures for digital electronics applications Chapter 12 has been devoted to introduce this subject to the students Simple pictures and heuristic descriptions have been given to introduce basic ideas of spintronics transport of spin polarized

electrons mechanisms by which several magnetoelectronic devices operate and basic architectures of MRAM Contents
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 Solids 81 Chapter 5 Magnetism of ordered systems 114 Chapter 6 Spin Waves Magnons 146 Chapter 7 Magnetic Energies
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 Problems 357 References 373 Solid-State Physics James D. Patterson, Bernard C. Bailey, 2019-02-20 This book teaches
 solid state physics in a comprehensive way covering all areas It begins with three broad topics how and why atoms bind
 together to form solids lattice vibrations and phonons and electrons in solids It then applies this knowledge to interactions
 especially those between electrons and phonons metals the Fermi surface and alloys semiconductors magnetism
 superconductivity dielectrics and ferroelectrics optical properties defects layered materials quantum Hall effect mesoscopics
 nanophysics and soft condensed matter Further important topics of the book are the evolution of BEC to BCS phenomena
 conducting polymers graphene iron pnictide superconductors light emitting diodes N V centers nanomagnetism negative
 index of refraction optical lattices phase transitions phononics photonics plasmonics quantum computing solar cells spin Hall
 effect and spintronics In this 3rd edition topics such as topological insulators quantum computing Bose Einstein transitions
 highly correlated electron systems and several others have been added New material on magnetism in solids as well as a
 discussion of semiconductors and a changed set of problems with solutions are also included The book also discusses folk
 theorems to remind readers of the essence of the physics without mathematics and includes 90 mini biographies of
 prominent solid state physicists of the past and present to put a human face on the subject An extensive solutions manual
 rounds out the book *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
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 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 **Introductory Solid State Physics** David Carl Johnston, 2025

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 Provided by publisher

Understanding Solid State Physics Sharon Ann Holgate, 2009-12-16 Enables students to easily grasp basic solid state physics principles Keeping the mathematics to a minimum yet losing none of the required rigor Understanding Solid State Physics clearly explains basic physics principles to provide a firm grounding in the subject The author underscores the technological applications of the physics discussed and em **New Developments in Ferromagnetism Research** V. N.

Murray, 2005 Ferromagnetism is a form of magnetism that can be acquired in an external magnetic field and usually retained in its absence so that ferromagnetic materials are used to make permanent magnets A ferromagnetic material may therefore be said to have a high magnetic permeability and susceptibility which depends upon temperature Examples are iron cobalt nickel and their alloys Ultimately ferromagnetism is caused by spinning electrons in the atoms of the material which act as tiny weak magnets They align parallel to each other within small regions of the material to form domains or areas of stronger magnetism In an unmagnetised material the domains are aligned at random so there is no overall magnetic effect If a magnetic field is applied to that material the domains align to point in the same direction producing a strong overall magnetic effect Permanent magnetism arises if the domains remain aligned after the external field is removed Ferromagnetic materials exhibit hysteresis In 2004 it was discovered that a certain allotrope of carbon nanofoam exhibited ferromagnetism The effect dissipates after a few hours at room temperature but lasts longer at cold temperatures The material is also a semiconductor It is thought that other similarly formed materials of boron and nitrogen may also be ferromagnetic This new book rings together leading research from throughout the world **Solid State Chemistry and its Applications** Anthony

R. West, 2022-04-06 **SOLID STATE CHEMISTRY AND ITS APPLICATIONS** A comprehensive treatment of solid state chemistry complete with supplementary material and full colour illustrations from a leading expert in the field Solid State Chemistry and its Applications Second Edition delivers an advanced version of West's classic text in solid state chemistry expanding on the undergraduate Student Edition to present a comprehensive treatment of solid state chemistry suitable for advanced

students and researchers The book provides the reader with an up to date account of essential topics in solid state chemistry and recent developments in this rapidly developing field of inorganic chemistry Significant updates and new content in this second edition include A more extensive overview of important families of inorganic solids including spinels perovskites pyrochlores garnets Ruddlesden Popper phases and many more New methods to synthesise inorganic solids including sol gel methods combustion synthesis atomic layer deposition spray pyrolysis and microwave techniques Advances in electron microscopy X ray and electron spectroscopies New developments in electrical properties of materials including high T_c superconductivity lithium batteries solid oxide fuel cells and smart windows Recent developments in optical properties including fibre optics solar cells and transparent conducting oxides Advances in magnetic properties including magnetoresistance and multiferroic materials Homogeneous and heterogeneous ceramics characterization using impedance spectroscopy Thermoelectric materials MXenes low dimensional structures memristors and many other functional materials Expanded coverage of glass including metallic and fluoride glasses cement and concrete geopolymers refractories and structural ceramics Overview of binary oxides of all the elements their structures properties and applications Featuring full color illustrations throughout readers will also benefit from online supplementary materials including access to CrystalMaker software and over 100 interactive crystal structure models Perfect for advanced students seeking a detailed treatment of solid state chemistry this new edition of Solid State Chemistry and its Applications will also earn a place as a desk reference in the libraries of experienced researchers in chemistry crystallography physics and materials science

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

Magnetism: A Synchrotron Radiation Approach Eric Beaurepaire, 2006-06-13 This volume contains the edited lectures of the fourth Mittelwihr school on Magnetism and Synchrotron Radiation This series of events introduces graduate students and nonspecialists from related disciplines to the field of magnetism and magnetic materials with emphasis on synchrotron radiation as an experimental tool of investigation These lecture notes present in particular the state of the art regarding the analysis of magnetic properties of new materials

Magnetism and Magnetic Materials J. M. D. Coey, 2010-03-25 An essential textbook for graduate courses on magnetism and an important source of practical reference data

Electricity

and Magnetism Fundamentals Lakshman Kalyan, 2025-02-20 Electricity and Magnetism Fundamentals offers a comprehensive journey into the realm of electromagnetism exploring both theoretical principles and practical applications. This guide is tailored for students, researchers, and enthusiasts seeking a deeper understanding of electromagnetism. We cover fundamental principles including Maxwell's equations, electromagnetic waves, and electromagnetic induction. The book delves into practical applications in everyday life, such as wireless communication technologies, medical imaging devices, power generation, and transportation systems. Real-world examples and case studies illustrate how electromagnetism shapes modern technology and society. The book integrates theoretical concepts with experimental techniques, encouraging readers to apply theoretical knowledge in practical settings. Hands-on experiments and demonstrations foster deeper insights into electromagnetism phenomena. With contributions from experts across disciplines, we offer insights into electromagnetism's role in physics, engineering, biology, and beyond. Rich illustrations, diagrams, and photographs enhance the learning experience, making complex concepts more accessible. Electricity and Magnetism Fundamentals is an essential resource for anyone seeking to understand electromagnetism's impact on diverse scientific and technological fields.

Statistical Physics Roberto Piazza, 2016-10-21 This book provides a general introduction to the ideas and methods of statistical mechanics with the principal aim of meeting the needs of Master's students in chemical, mechanical, and materials science engineering. Extensive introductory information is presented on many general physics topics in which students in engineering are inadequately trained, ranging from the Hamiltonian formulation of classical mechanics to basic quantum mechanics, electromagnetic fields in matter, intermolecular forces, and transport phenomena. Since engineers should be able to apply physical concepts, the book also focuses on the practical applications of statistical physics to material science and to cutting-edge technologies, with brief but informative sections on, for example, interfacial properties, disperse systems, nucleation, magnetic materials, superfluidity, and ultralow temperature technologies. The book adopts a graded approach to learning, the opening four basic level chapters being followed by advanced starred sections in which special topics are discussed. Its relatively informal style, including the use of musical metaphors to guide the reader through the text, will aid self-learning.

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