

Robert M. White

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Quantum Theory of Magnetism

Magnetic Properties of Materials
Third Edition



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Quantum Theory Of Magnetism Springer Series In Solid State Sciences Vol 3

Toru Moriya



Quantum Theory Of Magnetism Springer Series In Solid State Sciences Vol 3:

Quantum Theory of Magnetism Robert M. White, 2013-04-18 Although it is one of the oldest physical phenomena studied magnetism continues to be an active and challenging subject This is due to the fact that magnetic phenomena represent a complex application of quantum mechanics statistical physics and electromagnetism As new magnetic materials are synthesized and new experimental conditions realized the very fundamentals of these subjects are expanded Thus the Kondo effect like superconductivity stimulated the development of many body techniques spin glasses with their competing interactions are leading to advances in statistical physics and angle and spin resolved photoemission is probing details of transition metal electronic states never before possible I have not tried to incorporate all the new developments in this subject since the first edition ten years ago My purpose is still the same to use linear response theory to establish a common conceptual basis for understanding a variety of magnetic phenomena Many recent developments fit into this framework and have been included

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 T_c 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

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

Mössbauer Spectroscopy II U. Gonser, 2013-04-18 Some newly discovered effects lose their glamor after a short period of euphoria Others however retain their fascination for a long time and even as they mature display unexpected features The Mossbauer effect belongs to the second category Rudolf Mossbauer's discovery of recoilless gamma ray emission in 1957 immediately caused a flurry of attention and confirming work appeared almost at once Since then the flow of publications has steadily increased Most studies follow predictable paths the essential aspects of these conventional experiments have been described in the first

volume of the present work Mossbauer Spectroscopy Topics in Applied Physics Vol 5 These straightforward investigations have not however exhausted the field boredom has not set in and unexpected applications continue to appear In the present volume Uli Gonser has collected contributions that display the exotic side of the Mossbauer effect They range from a masterly description of the red shift experiment to a clear exposition of a powerful solution to the old and painful phase problem in crystallography Each of the contributions exhibits a different side of recoilless gamma ray emission Together they show that the field is very much alive and continues to delight us with elegant solutions to old problems unanticipated glimpses at new phenomena clever uses of new technical possibilities and ingenious applications to fields far away from physics I believe that novel features of the Mossbauer effect will continue to appear and that new applications will still be found

Chaos and Order in Nature Hermann Haken, 2013-11-11 This book contains the invited papers of an international symposium on synergetics which was held at Schloß Elmau Bavaria FRG April 27 to May 1 1981 At our previous meetings on synergetics the self organized formation of structures in quite different disciplines stood in the foreground of our interest More recently it has turned out that phenomena characterized by the word chaos appear in various disciplines and again far reaching analogies in the behavior of quite different systems become visible Therefore this meeting was devoted not only to problems connected with the occurrence of ordered structures but also to most recent results obtained in the study of chaotic motion In the strict mathematical sense we are dealing here with deterministic chaos i e irregular motion described by deterministic equations While in this relatively young field of research computer experiments and computer simulations predominated in the past there now seems to be a change of trend namely to study certain regular features of chaos by analytical methods I think considerable progress has been achieved in this respect quite recently This theoretical work is paralleled by a number of very beautiful experiments in different fields e g fluid dynamics solid state physics and chemistry For the first time at this kind of meeting we have included plasma physics which presents a number of most fascinating problems with respect to instabilities formation of structures and related phenomena

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.

Hyperfine Interactions of Radioactive Nuclei J. Christiansen, 2012-12-06 This volume deals with the interaction between moments of excited or radioactive nuclei and electromagnetic fields. The experimental techniques developed for the observation of this hyperfine interaction are governed by the lifetime of the nuclear states in question. The dynamics of the interaction are reflected by the time dependence of the spatial distribution of the radioactive decay radiation. Basically the experiments yield information on the energy shifts and/or splittings of the nuclear levels. These quantities are determined essentially by the product of the nuclear moment and the electromagnetic field acting at the site of the nucleus. Due to the strong decrease in the fields with distance the measurements probe these fields within a highly localized region centered around the radioactive nuclei. Detailed experimental methods with numerous ramifications were developed in the early sixties. In the period which followed the main emphasis was on excitation of short-lived nuclear states by means of pulsed particle accelerators, implantation of radioactive nuclei and production of polarized unstable nuclei by nuclear reactions with polarized neutrons or particles. The seventies were a period of fruitful applications directed to extensive studies of the moments of excited nuclear states on the one hand and local internal fields on the other, resulting in far-reaching information on atomic and solid state properties. The organization of this Topics volume follows these main lines of research.

Superconductivity in Ternary Compounds I O. Fischer, L.B. Maple, 2012-12-06 The structural, electronic and lattice properties of superconducting ternary compounds are the subject of this Topics volume. Its companion volume Topics in Current Physics Volume 34 deals primarily with the mutual interaction of superconductivity and magnetism in ternary compounds. These two volumes are the culmination of a project started nearly two years ago that was inspired by the intense research effort both experimental and theoretical, then being expended to explore and develop an understanding of the remarkable physical properties of ternary superconductors. Research activity on this subject has increased in the meantime. The interest in ternary superconductors originated in 1972 when B.T. Matthias and his co-workers first discovered superconductivity in several ternary molybdenum sulfide compounds that had been synthesized in 1971 by R. Chevrel, M. Sergent and J. Prigent. The superconducting critical temperature T_c of one of the compounds $PbMoS$ was reported to be 15 K. This value is sufficiently high that there was good reason to expect that other ternary compounds would be found with superconducting transition temperatures rivaling those of the A15 compounds of which Nb₃Ge has the record high T_c of 23 K. The interest in ternary superconductors received further impetus when several of the ternary molybdenum sulfides were found to have exceptionally high upper critical magnetic fields, some of them in the neighborhood of 50 Tesla or more. An immense amount of research on ternary molybdenum chalcogenides then followed.

Quantum Field Theory Lukong

Cornelius Fai,2019-06-20 Choice Recommended Title February 2020 This book explores quantum field theory using the Feynman functional and diagrammatic techniques as foundations to apply Quantum Field Theory to a broad range of topics in physics This book will be of interest not only to condensed matter physicists but physicists in a range of disciplines as the techniques explored apply to high energy as well as soft matter physics Features Comprehensive and rigorous yet presents an easy to understand approach Applicable to a wide range of disciplines Accessible to those with little or basic mathematical understanding

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

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