Sergei Tiablikov

Methods in the Quantum Theory of Magnetism

Methods In The Quantum Theory Of Magneti

Halid Bikkin,Igor I. Lyapilin

Methods In The Quantum Theory Of Magneti:

Methods in the Quantum Theory of Magnetism S. V. Tiablikov,2014-09-01 **Quantum Theory of Magnetism** Wolfgang Nolting,Anupuru Ramakanth,2009-10-03 Magnetism is one of the oldest and most fundamental problems of Solid State Physics although not being fully understood up to now On the other hand it is one of the hottest topics of current research Practically all branches of modern technological developments are based on ferromagnetism especially what concerns information technology The book written in a tutorial style starts from the fundamental features of atomic magnetism discusses the essentially single particle problems of dia and paramagnetism in order to provide the basis for the exclusively interesting collective magnetism ferro ferri antiferro Several types of exchange interactions which take care under certain preconditions for a collective ordering of localized or itinerant permanent magnetic moments are worked out Under which conditions these exchange interactions are able to provoke a collective moment ordering for finite temperatures is investigated within a series of theoretical models each of them considered for a very special class of magnetic materials The book is written in a tutorial style appropriate for those who want to learn magnetism and eventually to do research work in this field Numerous exercises with full solutions for testing own attempts will help to a deep understanding of the main aspects of collective ferromagnetism Methods in the Quantum Theory of Magnetism S. Tyablikov,1967 **Methods in the Quantum Theory of Magnetism** Ernest Sherwin,1967 *Methods In The Quantum Theory Of Magnetism* V.S. Tyablikov, **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 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 *Non-equilibrium thermodynamics and physical kinetics* Halid Bikkin,Igor I. Lyapilin,2014-01-31 This graduate textbook covers contemporary directions of non equilibrium statistical mechanics as well as classical methods of kinetics Starting from phenomenological non equilibrium thermodynamics the kinetic equation method discussed and demonstrated with electrons and phonons in conducting crystals Linear response theory as well as the non equilibrium statistical operator and the master equation approach are discussed in the course of the book With one of the main propositions being to avoid terms such as obviously and it is easy to show this treatise is an easy to read introduction into this traditional yet vibrant field Problems and their well documented solutions included at appropriate points of the narrative allow the reader to actively develop essential parts of the theory himself From the content Phenomenological thermodynamics of irreversible processes Brownian motion Kinetic equations in non equilibrium thermodynamics Kinetic equation for electrons and phonons in conducting crystals Theory of non linear response to an external mechanical pertubation Non equilibrium statistical operator method Response of a highly non equilibrium system to a weakly measuring field Master equation approach Nuclear Science Abstracts ,1976 Theory Of Magnetism: Application To Surface Physics Hung-the Diep,2013-12-24 The book is intended for graduate students and researchers who wish to master the main properties of magnetic materials in the bulk state and at the nanometric scale such as for thin films and multilayers This textbook provides the theories and methods of simulation to study and to understand these properties in an explicit manner In the first part of the book the quantum theory of magnetism is presented while the second part of the book is devoted to the application of the theory of magnetism to surface physics Numerous examples covering typical cases in ferromagnets antiferromagnets ferrimagnets helimagnets and frustrated spin systems are all illustrated Fundamental surface effects are shown and discussed Lastly the spin transport is described in which the basic formulation of the Boltzmann s equation is recalled and the recent methods of Monte Carlo simulation to deal with the spin resistivity are

explained This book contains a large number of detailed solutions for the problems given in each chapter to help readers discover new related phenomena and applications as well as an appendix on elements of statistical physics included at the end to make the book self contained Theory Of Magnetism Made Simple, The: An Introduction To Physical Concepts And To Some Useful Mathematical Methods Daniel C Mattis,2006-03-10 This new version of a classic updates much of the material in earlier editions including the first chapter on the history of the field Important modifications reflect major discoveries of the past decades A historical perspective is maintained throughout The reader is drawn into the process of discovery starting with a phenomenon finding plausible explanations and competing theories and finally the solution The theory of magnetism is practically a metaphor for theoretical physics The very first quantum many body theory Bethe s ansatz was devised for magnetic chains just as mean field theory was invented a century ago by Weiss to explain Curie s Law The first two chapters of this book are immensely readable taking us from prehistory to the spin valves of the most recent past Topics in subsequent chapters include angular momenta and spin Chapter 3 quantum theory of simple systems followed by increasingly technical insights into ordered and random systems thermal fluctuations phase transitions chaos and the like Contemporary developments in nanotechnology now seek to take advantage of the electron s spin as well as of its charge The time is not far off when nano circuits made entirely of silicon exhibit such many body properties as superconductivity or ferromagnetism without any superconducting materials or magnetic ions being present The reader of this book will be prepared for such exotic twenty first century applications Daniel C Mattis BS MS PhD Fellow of the American Physical Society APS is a frequent lecturer at research institutions and the author of several textbooks and numerous research articles His expertise includes many body theory electrical conductivity quantum theory of magnetism and most recently nanotechnology Prof Mattis is on the editorial panel for high temperature superconductivity of the International Journal of Modern Physics B and Modern Physics Letters B both published by World Scientific Currently serving as Professor in the Physics department at the University of Utah in Salt Lake City Utah USA at various times he has been visiting Professor at Yale University New Haven State University of New York Buffalo Temple University Philadelphia and served as Wei Lun Visiting Professor at the Chinese University of Hong Kong A founding member of the Few Body Physics section of the APS he has also served as Chair of the standing committee of the APS for the International Freedom of Scientists **The Pseudo-Spin Method in Magnetism and Ferroelectricity** Ljubisav Novaković,2013-10-22 The Pseudo Spin Method in Magnetism and Ferroelectricity deals with the pseudo spin method in magnetism and ferroelectricity with emphasis on three important ordered systems ferromagnets antiferromagnets and hydrogen bonded ferroelectrics Each system is analyzed in three important temperature regions low temperatures the critical region and high temperatures The presented mathematical method is predominantly analytical in the sense that all crucial physical quantities are expressed in terms of temperature or the reciprocal lattice vectors Comprised of four chapters this volume begins with an introduction to Basic

concepts in lattice dynamics touching on topics such as symmetry groups light scattering and the spectrum of ionic crystals The discussion then turns to phase transitions and covers magnetism ferroelectricity and the Ising model with a transverse field Magnetic elementary excitations are then considered paying particular attention to the second quantization method the exchange interaction the Heisenberg ferromagnet in a boson representation and high temperature static susceptibility The final chapter is devoted to the Green functions and their perturbation expansion ferromagnetism at low temperatures antiferromagnetism and ferroelectric modes and high temperature dielectric susceptibilities This book will be of interest to physicists as well as students and researchers in physics *Encyclopaedia of Mathematics* Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques Dynamic Spin-Fluctuation Theory of Metallic Magnetism Nikolai B. Melnikov,Boris I. Reser,2018-08-02 This book presents a theoretical framework for magnetism in ferromagnetic metals and alloys at finite temperatures The objective of the book is twofold First it gives a detailed presentation of the dynamic spin fluctuation theory that takes into account both local and long wave spin fluctuations with any frequency The authors provide a detailed explanation of the fundamental role of quantum spin fluctuations in the mechanism of metallic magnetism and illustrate the theory with concrete examples The second objective of the book is to give an accurate and self contained presentation of many body techniques such as the functional integral method and Green s functions via a number of worked examples These computational methods are of great use to solid state physicists working in a range of specialties The book is intended primarily for researchers but can also be used as textbook The introductory chapters offer clear and complete derivations of the fundamentals which makes the presentation self contained The main text is followed by a number of well organized appendices that contain a detailed presentation of the necessary many body techniques and computational methods The book

also includes a list of symbols and detailed index This volume will be of interest to a wide range of physicists interested in magnetism and solid state physics in general both theoreticians and experimentalists **The Recursion Method and Its Applications** D.G. Pettifor,D.L. Weaire,2012-12-06 This volume reviews recent advances in the development and application of the recursion method in computational solid state physics and elsewhere It comprises the invited papers which were presented at a two day conference at Imperial College London during September 1984 The recursion method is based on the Lanczos algorithm for the tridiago nalisation of matrices but it is much more than a straightforward numerical technique It is widely regarded as the most elegant framework for a variety of calculations into which one may incorporate physical insights and a num ber of technical devices The standard reference is Volume 35 of Solid State Physics which contains all the early ideas of Heine Haydock and others upon which the method was established The present volume provides the first review of subsequent developments It also indicates where problems remain or opinions differ in the interpretation of the mathematical details or choice of practical techniques in applications The field is still very li vely and much remains to be done as the summary chapter clearly demonstra tes We are grateful to the S E R C s Collaborative Computational Project No 9 on the electronic structure of solids and the Institute of Physics s Solid State Sub committee for their sponsorship of the conference We thank Angus MacKinnon for his help in conference organisation and Jacyntha Crawley for secretarial assistance December 1984 David G Pettifor Denis L Weaire v Contents Part I Introduction Why Recur By V Quantum Theory of Magnetism Robert M. White,1983 **Magnetic Flux Structures in Superconductors** Rudolf Huebener,2001-01-11 This second edition has been brought up to date by the inclusion of an extensive new chapter on aspects relevant to high temperature superconductors The new edition provides researchers engineers and other scientists with an introduction to the field and makes useful supplementary reading for graduate students in low temperature physics *The Structure of the Atom* Edward Neville da Costa Andrade,1924 **Physics for Civil Service Exam** Madhu Sudan Pramod Sinha,2007 This book has been written for the students preparing on the basis of new syllabus of UPSC New Delhi for Civil Services Preliminary Examination All the subject matter is presented in a simple lucid style and in an elaborate form which will help even a fresher in following the subject with a little effort and informing clear mental concepts *Lectures on Selected Topics in Statistical Mechanics* D. Ter Haar,2013-09-03 Lectures on Selected Topics in Statistical Mechanics is a collection of lectures given at the 1971 Simla Summer School of Statistical Mechanics held in India The lectures explore a wide range of topics related to statistical mechanics including occupation number representation the Green function method the pair Hamiltonian model of an imperfect Bose gas fluctuations in a perfect Bose gas and the equation of state of an imperfect gas A simple derivation of the Bloch equation is also presented along with the statistical mechanics of stellar systems Comprised of eight chapters this volume begins with a discussion on the occupation number representation by considering some relevant formulae from ensemble theory Classical petit and grand ensembles are described together with

quanta1 petit and grand ensembles Subsequent chapters focus on the Green function method in statistical mechanics the pair Hamiltonian model of the imperfect Bose gas and its solution in the absence of Bose Einstein condensation using Green function methods and diagrammatic techniques fluctuations in a perfect Bose gas the equation of state of an imperfect gas and a simple derivation of the Bloch equation Finally the statistical mechanics of stellar systems and an approach to equilibrium are described This book will be of interest to physicists

This book delves into Methods In The Quantum Theory Of Magneti. Methods In The Quantum Theory Of Magneti is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Methods In The Quantum Theory Of Magneti, encompassing both the fundamentals and more intricate discussions.

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Methods In The Quantum Theory Of Magneti Introduction

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