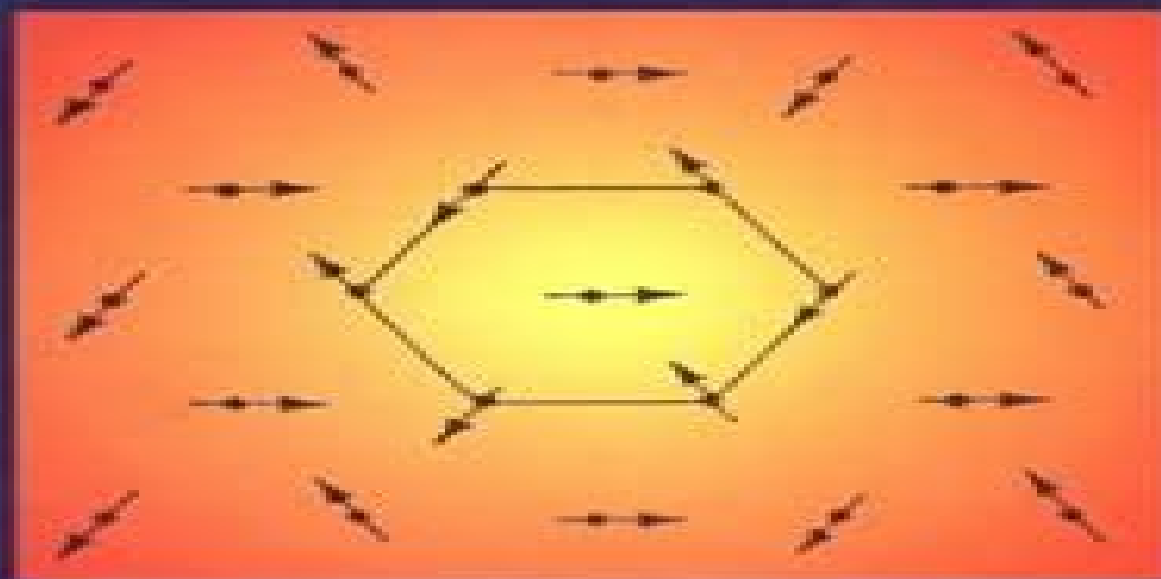


# **MAGNETIC SYSTEMS WITH COMPETING INTERACTIONS**

**(Frustrated Spin Systems)**



*edited by* **H T Diep**

**World Scientific**

# Magnetic Systems With Competing Interactions

**G.C. Hadjipanayis**

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## **Magnetic Systems With Competing Interactions:**

*Magnetic Systems with Competing Interactions* H. T. Diep, 1994 This book is intended for postgraduate students as well as researchers in various areas of physics such as statistical physics magnetism and materials sciences The content of the book covers mainly frustrated spin systems with possible applications in domains where physical systems can be mapped into the spin language Pedagogical effort has been made to make each chapter to be self contained comprehensible for researchers who are not really involved in the field Basic methods are given in detail [Magnetic Systems With Competing Interactions \(frustrated Spin Systems\)](#) H.T. Diep, [Computer Simulation Studies in Condensed-Matter Physics XIX](#) David P. Landau, Steven P. Lewis, Heinz-Bernd Schüttler, 2008-11-30 Two decades ago because of the tremendous increase in the power and utility of computer simulations The University of Georgia formed the first institutional unit devoted to the use of simulations in research and teaching The Center for Simulation Physics As the international simulations community expanded further we sensed a need for a meeting place for both experienced simulators and neophytes to discuss new techniques and recent results in an environment which promoted lively discussion As a consequence the Center for Simulation Physics established an annual workshop on Recent Developments in Computer Simulation Studies in Condensed Matter Physics This year's workshop was the nineteenth in this series and the continued interest shown by the scientific community demonstrates quite clearly the usefulness that these meetings have served The latest workshop was held at The University of Georgia February 20-24 2006 and these proceedings provide a status report on a number of important topics This volume is published with the goal of timely dissemination of the material to a wider audience We wish to offer a special thanks to IBM for partial support of this year's workshop This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments Athens GA USA D P Landau July 2006 S P Lewis H B [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 It 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 [Modern Techniques for Characterizing Magnetic Materials](#) Yimei Zhu, 2005-12-06 Modern Techniques for Characterizing Magnetic Materials provides an extensive overview of novel characterization tools for magnetic materials including neutron photon and electron scatterings and other microscopy techniques by world renowned scientists This interdisciplinary reference describes all available techniques to characterize and to understand magnetic materials

techniques that cover a wide range of length scales and belong to different scientific communities. The diverse contributions enhance cross-discipline communication while also identifying both the drawbacks and advantages of different techniques which can result in deriving effective combinations of techniques that are especially fruitful at nanometer scales. It will be a valuable resource for all graduate students, researchers, engineers, and scientists who are interested in magnetic materials including their crystal structure, electronic structure, magnetization dynamics, and their associated magnetic properties and underlying magnetism.

**Dynamical Properties of Unconventional Magnetic Systems** A.T. Skjeltorp, David

Sherrington, 2012-12-06 Magnetism encompasses a wide range of systems and physical phenomena and its study has posed and exposed both important fundamental problems and many practical applications. Recently several entirely new phenomena have thus been discovered generated through cooperative behaviour which could not have been predicted from a knowledge of one spin states. At the same time advances in sample preparation, experimental technique, apparatus, and radiation sources have led to increasing precision in the investigation and exposure of greater subtleties in magnetic thin films, multilayers, and other systems. Examples of unexpected and conceptually new phenomena occur in strongly correlated and fluctuating quantum systems producing effects such as Haldane and spin-Peierls gaps, solitons, quantum spin glasses, and spin liquids. The discovery and elucidation of these emerging properties is a central theme in modern condensed matter physics. The present book comprises a series of chapters by world experts covering both theoretical and experimental aspects. The approach is pedagogical and tutorial but fully up to date covering the latest research. The level is appropriate to graduate researchers who may either be just moving into the field or who are already active in condensed matter physics.

**Magnetism in Condensed Matter** Stephen Blundell, 2001-10-05 An understanding of the quantum mechanical nature of magnetism has led to the development of new magnetic materials which are used as permanent magnets, sensors, and in information storage. Behind these practical applications lie a range of fundamental ideas including symmetry breaking, order parameters, excitations, frustration, and reduced dimensionality. This superb new textbook presents a logical account of these ideas starting from basic concepts in electromagnetism and quantum mechanics. It outlines the origin of magnetic moments in atoms and how these moments can be affected by their local environment inside a crystal. The different types of interactions which can be present between magnetic moments are described. The final chapters of the book are devoted to the magnetic properties of metals and to the complex behaviour which can occur when competing magnetic interactions are present and/or the system has a reduced dimensionality. Throughout the text, the theoretical principles are applied to real systems. There is substantial discussion of experimental techniques and current research topics. The book is copiously illustrated and contains detailed appendices which cover the fundamental principles.

Advanced Magnetic and Optical Materials Ashutosh Tiwari, Parameswar K. Iyer, Vijay Kumar, Hendrik Swart, 2016-11-29 Advanced Magnetic and Optical Materials offers detailed up-to-date chapters on the functional optical and magnetic materials engineering of quantum

structures high tech magnets characterization and new applications It brings together innovative methodologies and strategies adopted in the research and development of the subject and all the contributors are established specialists in the research area The 14 chapters are organized in two parts Part 1 Magnetic Materials Magnetic Heterostructures and superconducting order Magnetic Antiresonance in nanocomposites Magnetic bioactive glass ceramics for bone healing and hyperthermic treatment of solid tumors Magnetic iron oxide nanoparticles Magnetic nanomaterial based anticancer therapy Theoretical study of strained carbon based nanobelts Structural energetical electronic and magnetic properties Room temperature molecular magnets Modeling and applications Part 2 Optical Materials Advances and future of white LED phosphors for solid state lighting Design of luminescent materials with Turn on off response for anions and cations Recent advancements in luminescent materials and their potential applications Strongly confined quantum dots Emission limiting photonic doping and magneto optical effects Microstructure characterization of some quantum dots synthesized by mechanical alloying Advances in functional luminescent materials and phosphors Development in organic light emitting materials and their potential applications

**Geometrically Constructed Markov Chain Monte Carlo Study of Quantum Spin-phonon Complex Systems** Hidemaro Suwa, 2013-11-05 In this thesis novel Monte Carlo methods for precisely calculating the critical phenomena of the effectively frustrated quantum spin system are developed and applied to the critical phenomena of the spin Peierls systems Three significant methods are introduced for the first time a new optimization algorithm of the Markov chain transition kernel based on the geometric weight allocation approach the extension of the worm directed loop algorithm to nonconserved particles and the combination with the level spectroscopy Utilizing these methods the phase diagram of the one dimensional XXZ spin Peierls system is elucidated Furthermore the multi chain and two dimensional spin Peierls systems with interchain lattice interaction are investigated The unbiased simulation shows that the interesting quantum phase transition between the 1D like liquid phase and the macroscopically degenerated dimer phase occurs on the fully frustrated parameter line that separates the doubly degenerated dimer phases in the two dimensional phase diagram The spin phonon interaction in the spin Peierls system introduces the spin frustration which usually hinders the quantum Monte Carlo analysis owing to the notorious negative sign problem In this thesis the author has succeeded in precisely calculating the critical phenomena of the effectively frustrated quantum spin system by means of the quantum Monte Carlo method without the negative sign

**Polaritons in Periodic and Quasiperiodic Structures** Eudenilson L. Albuquerque, Michael G. Cottam, 2004-12-09 In recent years there have been exciting developments in techniques for producing multilayered structures of different materials often with thicknesses as small as only a few atomic layers These artificial structures known as superlattices can either be grown with the layers stacked in an alternating fashion the periodic case or according to some other well defined mathematical rule the quasiperiodic case This book describes research on the excitations or wave like behavior of these materials with emphasis on how the material

properties are coupled to photons the quanta of the light or the electromagnetic radiation to produce mixed waves called polaritons Clear and comprehensive account of polaritons in multilayered structures Covers both periodic and quasiperiodic superlattices Careful attention to theoretical developments and tools Invaluable guide for researchers in this field Shows developments from the basics to advanced topics

**Magnetism And Electronic Correlations In Local-moment Systems: Rare-earth Elements And Compounds** M Donath, Peter A Dowben, Wolfgang Nolting, 1998-12-24 The interplay of magnetism and electronic correlations dominates the physical properties of many rare earth elements and their compounds The investigation of the mutual influence of the localized 4f electrons and itinerant band electrons represents a challenging task in theoretical as well as experimental physics Research areas of current interest are the electronic structure as determined from calculations and spectroscopies the magnetic properties in three and low dimensional systems open questions concerning transport such as spin disorder resistivity and the influence of structure and morphology

**Multicritical Phenomena** Roger Pynn, A. Skjeltorp, 2012-12-06 This book comprises the Proceedings of a NATO Advanced Study Institute on Multicritical Phenomena held in Geilo Norway between 10-21 April 1983 This school was the seventh to be held in Geilo on various aspects of phase transitions In spite of its apparently restrictive title the school was planned as a forum for the discussion of phase transitions and instabilities in systems with competing interactions and competing order parameters Thus in addition to the canonical multicritical points subjects were diverse as critical phenomena in random magnetic systems and routes to chaos were discussed The subject matter of the school is naturally divided into a series of categories which to some extent reflect the historical development of interest in competing phenomena at phase transitions Multicritical points in equilibrium systems defined phenomenologically as points of sudden change of behaviour on an otherwise smooth phase boundary were the first topics of the school The theoretical consensus which has emerged during the past decade largely as a result of calculations with the renormalisation group was reviewed in some detail The results presented however apply only to pure systems in which dirt and other manifestations of reality are irrelevant in that small realm close to the phase transition known as asymptopia

**Mössbauer Spectroscopy Applied to Inorganic Chemistry** G.J Long, F. Grandjean, 2013-11-11 In 1988 the Mossbauer effect community completed 30 years of continual contribution to the fields of nuclear physics solid state science and a variety of related disciplines To celebrate this anniversary Professor Gonser of the Universität des Saarlandes has contributed a chapter to this volume on the history of the effect Although Mossbauer spectroscopy has reached its mature years the chapters in this volume illustrate that it is still a dynamic field of science with applications to topics ranging from permanent magnets to biological mineralization During the discussion of a possible chapter for this volume a potential author asked Do we really need another Mossbauer book The editors responded in the affirmative because they believe that a volume of this type offers several advantages First it provides the author with an opportunity to write a personal view of the subject either with or without extensive pedagogic content Second there is no

artificially imposed restriction on length In response to the question How long should my chapter be we have responded that it should be as long as is necessary to clearly present explain and evaluate the topic In this type of book it is not necessary to condense the topic into two four or eight pages as is now so often a requirement for publication in the research literature

Magnetic Hysteresis in Novel Magnetic Materials G.C. Hadjipanayis, 2012-12-06 A detailed presentation of the physics of the various hysteresis models that are currently used to explain the magnetization reversal process including coherent and incoherent magnetization processes micromagnetism and its application in thin films multilayers nanowires particles and bulk magnets domain wall pinning and domain wall dynamics and Preisach modelling Some of the faulty concepts and interpretations that still exist in the literature are rectified Magnetic imaging techniques are reviewed including TEM SEM magnetic force microscopy and optical microscopy Temperature field and angular dependence of coercivity magnetic interactions and magnetic phenomena are reviewed and their effect on magnetic hysteresis is discussed The magnetic properties of novel materials are discussed including nanoparticles nanocrystalline granular solids particulate media thin films and bulk magnets Finally present and future applications of novel materials are presented including magnetic and magneto optic recording media magneto electronics sensors magnetic circuit design and novel structures created from rigid high energy permanent magnets

**A Guide to Monte Carlo Simulations in Statistical Physics** David P. Landau, Kurt Binder, 2009-09-10 This book expands the topic of Monte Carlo simulation for graduate students and researchers in physics

**Magnetism, magnetic Materials And Their Applications Iii - Proceedings Of The Iii Latin American Workshop** F Leccabue, Vicente Sagredo, 1996-08-22 This volume is a collection of the papers presented at the III Latin American Workshop on Magnetism Magnetic Materials and Their Applications M rida Venezuela 20 24 November 1995 following those held in La Habana Cuba in 1991 and Guanajuato M xico in 1993 Recent research on magnetic materials with particular reference to fundamental properties materials preparation and characterisation techniques and applications are discussed in this volume

**Skyrmions** J. Ping Liu, Zhidong Zhang, Guoping Zhao, 2016-12-08 The book reviews all the aspects of recent developments in research on skyrmions from the presentation of the observation and characterization techniques to the description of physical properties and expected applications It will be of great use for all scientists working in this field

Albert Fert 2007 Nobel Laureate in Physics from the Foreword A skyrmion is a tiny region of reversed magnetization quasiparticles since they are not present except in a magnetic state and also give rise to physics that cannot be described by Maxwell s equations These particles are fascinating subjects for theoretical and experimental studies Moreover as a new type of magnetic domain structure with special topological structures skyrmions feature outstanding magnetic and transport properties and may well have applications in data storage and other advanced spintronic devices as readers will see in this book Chapters address the relationships between physical properties of condensed matter such as the AB effect Berry phase effect quantum Hall effect and topological insulators Overall it provides a timely introduction to the fundamental aspects and

possible applications of magnetic skyrmions to an interdisciplinary audience from condensed matter physics chemistry and materials science *Journal of Experimental and Theoretical Physics* ,1999 **A Guide to Monte Carlo Simulations in Statistical Physics** David Landau,Kurt Binder,2021-07-29 Dealing with all aspects of Monte Carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics this book provides an introduction to computer simulations in physics The 5th edition contains extensive new material describing numerous powerful algorithms and methods that represent recent developments in the field New topics such as active matter and machine learning are also introduced Throughout there are many applications examples recipes case studies and exercises to help the reader fully comprehend the material This book is ideal for graduate students and researchers both in academia and industry who want to learn techniques that have become a third tool of physical science complementing experiment and analytical theory

Functional Hybrid Materials Pedro Gómez-Romero,Clément Sanchez,2006-03-06 Functional Hybrid Materials consist of both organic and inorganic components assembled for the purpose of generating desirable properties and functionalities The aim is twofold to bring out or enhance advantageous chemical electrochemical magnetic or electronic characteristics and at the same time to reduce or wholly suppress undesirable properties or effects Another target is the creation of entirely new material behavior The vast number of hybrid material components available has opened up a wide and diversified field of fascinating research In this book a team of highly renowned experts gives an in depth overview illustrating the superiority of well designed hybrid materials and their potential applications



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