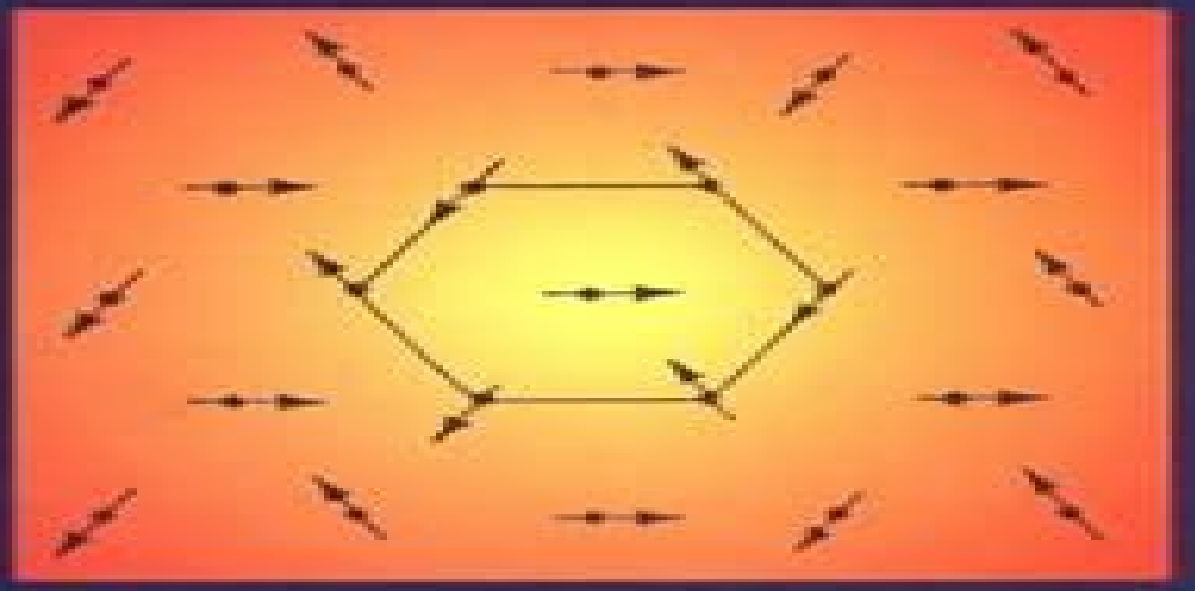
MAGNETIC SYSTEMS WITH COMPETING INTERACTIONS

(Frustrated Spin Systems)



edited by **H T Diep**

World Scientific

Magnetic Systems With Competing Interactions

Lei Shi

Magnetic Systems With Competing Interactions:

Magnetic Systems With Competing Interactions Hung-the Diep,1994-11-26 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 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, *Competing Interactions and Microstructures: Statics and Dynamics* Richard LeSar,Alan Bishop,Robert Heffner,2012-12-06 Many macroscopic properties of materials are determined primarily by inhomogeneous structures and textures These intermediate scale structures often arise from competing interactions operating on different length scales within the material Our understanding of such phenomena has increased substantially with the identification and theoretical description of solid state materials with incommensurate and long period modulated phases such as ferroelectrics charge density wave compounds epitaxial layers and polytypes Experimental diagnosis of inhomogeneous ground states and metastable phases has advanced so far that these are now well accepted phenomena These proceedings bring together the work of physicists and materials scientists to review developments in this area and to examine possible future directions such as how the microscopic understanding emerging in bench top solid state systems can be applied in materials science *Competing Interactions and Pattern Formation in Nanoworld* Elena Vedmedenko,2007-02-27 Systems displaying competing interactions of some kind are widespread much more in fact as commonly anticipated magnetic and Ising type interactions or the dynamics of DNA molecules being only two popular examples Written for researchers in the field with different professional backgrounds this volume classifies phenomena not by system but rather by the type of competing interactions involved This allows for a straightforward presentation of the underlying principles and the universal laws governing the behaviour of different systems Starting with a historical overview the author proceeds by describing self competitions of various types of interactions such as diploar or multipolar interactions competitions between a short range and a long range interaction as in Ising systems or DNA models or between a long range interaction and an anisotropy as in ultrathin magnetic films or magnetic nanoparticles and finally competitions between interactions of the same range as in spin glasses Each chapter contains a few problems with solutions which provide suitable

material for lecturers of mathematics and physics as well as biology courses A vast body of references to the original literature make the volume self contained and ideally suited to master this interdisciplinary field 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 *Quantum Ising Phases and Transitions in Transverse Ising Models* Sei Suzuki,Jun-ichi Inoue,Bikas K. Chakrabarti,2012-12-14 Quantum phase transitions driven by quantum fluctuations exhibit intriguing features offering the possibility of potentially new applications e g in quantum information sciences Major advances have been made in both theoretical and experimental investigations of the nature and behavior of quantum phases and transitions in cooperatively interacting many body quantum systems For modeling purposes most of the current innovative and successful research in this field has been obtained by either directly or indirectly using the insights provided by quantum or transverse field Ising models because of the separability of the cooperative interaction from the tunable transverse field or tunneling term in the relevant Hamiltonian Also a number of condensed matter systems can be modeled accurately in this approach hence granting the possibility to compare advanced models with actual experimental results This work introduces these quantum Ising models and analyses them both theoretically and numerically in great detail With its tutorial approach the book addresses above all young researchers who wish to enter the field and are in search of a suitable and self contained text yet it will also serve as a valuable reference work for all active researchers in this area **Solid State Physics** ,1987-09-02 Solid State Physics Condensed Matter Physics Hari Prakash (of Physics Dept., Allahabad University.),1999 Contributed seminar papers **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 Its 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 *Methods Of Structural Analysis Of Modulated Structures And Quasicrystals* J M Perez-mato,F J Zuniga,G Madariaga,1991-10-31 By introducing the superspace formalism the methods of structure analysis of incommensurate structures have achieved in the past few years a full maturity The superspace description is also becoming

in the field of quasicrystals the main tool to approach a systematic method of structure determination of these materials According to the program of the Workshop these proceedings are an introduction to the formalism and practice of structure determination of modulated structures incommensurate and commensurate and quasiperiodic systems mainly under the unifying framework of the superspace description Accordingly a large set of tutorial introductory chapters written by well known specialists are included The main refinement programs available for incommensurate structures are presented by their authors The book also contains the most recent contributions from more than thirty of the participants in the Workshop focusing on the problem of the structure analysis of these typical materials by means of diffraction methods **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 increasein the power and utility of computer simulations The University of Georgia formed the rst insti tional unit devoted to the use of simulations in research and teaching The Center for Simulational 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 Simulational Physics established an annual workshop on Recent Devel ments 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 scienti c community demonstrates quite clearly the useful p pose 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 o er 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 bene t from specialized results as well as pro t from exposure to new algorithms methods of analysis and conceptual dev opments Athens GA USA D P Landau July 2006 S P Lewis H B 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 *Smart Structures* Vinod K. Wadhawan,2007-10-18 Smartness is often associated with living beings as they can adapt themselves to changing situations Artificial smart structures are designed to mimic biological structures to a small or large extent This book gives a comprehensive account of how this can be done It will be of interest to students and professionals in science and engineering Physics Letters ,1999 General physics atomic physics molecular physics and solid state physics *Advanced Magnetic and Optical Materials* Ashutosh Tiwari,Parameswar K. Iyer,Vijay Kumar,Hendrik Swart,2016-11-29 Advanced Magnetic and OpticalMaterials 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 *Polymers, Liquids And Colloids In Electric Fields: Interfacial Instabilites, Orientation And Phase Transitions* Yoav Tsori,Ullrich Steiner,2009-02-25 This unique book aims to expose the reader to a wide range of phenomena occurring when soft matter systems are put under the influence of an external electric field The book shows how an electric field can be used to affect objects at the submicron scale and how it controls the phase behavior of liquids and polymers The main focus is on the basic underlying mechanisms Some technological applications are dealt with as well Book chapters are arranged in a logical order from simple systems to more complicated ones In addition each topic is covered by the mixed bag of theory experiment and simulation and this will give the reader a broad perspective of the underlying physical phenomena

Polymers, Liquids and Colloids in Electric Fields Yoav Tsori,2009 This unique book aims to expose the reader to a wide range of phenomena occurring when soft matter systems are put under the influence of an external electric field The book shows how an electric field can be used to affect objects at the submicron scale and how it controls the phase behavior of liquids and polymers The main focus is on the basic underlying mechanisms Some technological applications are dealt with as well Book chapters are arranged in a logical order from OC simpleOCO systems to more complicated ones In addition each topic is covered by the mixed bag of theory experiment and simulation and this will give the reader a broad perspective of the underlying physical phenomena **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 Universitat 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 biologi cal 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 Properties of Layered Transition Metal Compounds L.J. de Jongh,2012-12-06 In the last two decades low dimensional low d physics has matured into a major branch of science Quite generally we may define a system with restricted dimensionality d as an object that is infinite only in one or two spatial directions d 1 and 2 Such a definition comprises isolated single chains or layers but also fibres and thin layers films of varying but finite thickness Clearly a multitude of physical phenomena notably in solid state physics fall into these categories As examples we may mention Magnetic chains or layers thin film technology Metallic films homogeneous or heterogeneous crystalline amorphous or microcristalline etc I d or 2 d conductors and superconductors Intercalated systems 2 d electron gases electrons on helium semiconductor interfaces Surface layer problems 2 d melting of monolayers of noble gases on a substrate surface problems in general Superfluid films of He or He Polymer physics Organic and inorganic chain conductors superionic conductors I d or 2 d molecular crystals and liquid crystals I d or 2 d ferro and antiferro electrics

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