

Cirano De Dominicis and Irene Giardinà



Random Fields *and* Spin Glasses

A Field Theory Approach

CAMBRIDGE

Spin Glasses And Random Fields

Marcos Lederman



Spin Glasses And Random Fields:

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competition between quenched disorder and nonequilibrium driving plays a crucial role The book also includes a pedagogical review of a renormalization group technique for disordered systems **Spin Glasses** K. H. Fischer, J. A. Hertz, 1993-05-27 A comprehensive account of the theory experimental work and computer modelling of spin glasses **Mathematical Statistical Physics**, 2006-06-27 The proceedings of the 2005 les Houches summer school on Mathematical Statistical Physics give a broad and clear overview on this fast developing area of interest to both physicists and mathematicians Introduction to a field of math with many interdisciplinary connections in physics biology and computer science Roadmap to the next decade of mathematical statistical mechanics Volume for reference years to come **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 [Spin Glasses: A Challenge for Mathematicians](#) Michel Talagrand, 2003-07-11 In the eighties a group of theoretical physicists introduced several models for certain disordered systems called spin glasses These models are simple and rather canonical random structures that physicists studied by non rigorous methods They predicted spectacular behaviors previously unknown in probability theory They believe these behaviors occur in many models of considerable interest for several branches of science statistical physics neural networks and computer science This book introduces in a rigorous manner this exciting new area to the mathematically minded reader It requires no knowledge whatsoever of any physics and contains proofs in complete detail of much of what is rigorously known on spin glasses at the time of writing *Concise Encyclopedia of Magnetic and Superconducting Materials* K.H.J. Buschow, 2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates

and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest

Disorder and Strain-Induced Complexity in Functional Materials Tomoyuki Kakeshita, Takashi Fukuda, Avadh Saxena, Antoni Planes, 2011-10-27 This book brings together an emerging consensus on our understanding of the complex functional materials including ferroics perovskites multiferroics CMR and high temperature superconductors The common theme is the existence of many competing ground states and frustration as a collusion of spin charge orbital and lattice degrees of freedom in the presence of disorder and both dipolar and elastic long range forces An important consequence of the complex unit cell and the competing interactions is that the emergent materials properties are very sensitive to external fields thus rendering these materials with highly desirable technologically important applications enabled by cross response

Handbook of Magnetism and Advanced Magnetic Materials: Fundamentals and theory Helmut Kronmüller, Stuart S. P. Parkin, 2007

Phase Transitions and Critical Phenomena Cyril Domb, Melville S. Green, 2001

Spin Glasses and Complexity Daniel L. Stein, Charles M. Newman, 2013-01-15 This primer builds the theory of spin glasses starting with the real physical systems and experiments that inspired the theory

Random Fields J. Fritz, Joel Louis Lebowitz, D. Szász, 1981

Spin Glasses and Related Problems V. S. Dotsenko, M. V. Feigel'man, L. B. Ioffe, 1990 Three scientists from the L D Landau Institute of Theoretical Physics Moscow review recent developments in the theory of spin glasses and related strongly disordered systems They discuss in particular the problems of irreversibility and nonergodicity in the framework of the mean field theory a phase transition in three dimensional spin glasses and glass like systems with hidden correlations Addressed to researchers in theoretical physics Book club price 59 Annotation copyrighted by Book News Inc Portland OR

Physics Briefs, 1993

The Phase Diagram of the Diluted Antiferromagnet in a Field at Zero Temperature Andreas Glaser, 2003

Current Topics on Non-crystalline Solids M. D. Baró, N. Clavaguera, 1986

Dynamical Properties of Unconventional Magnetic Systems Arne Skjeltorp, David Sherrington, 1998-06-30 Contains 16 lectures presented at the April 1997 institute which addressed the current experimental and theoretical knowledge of the cooperative phenomena fluctuations and excitations in unconventional magnetic systems including low dimensional and mesoscopic magnetism novel ground states quantum magnets and soft matter Some sample topics are dynamics and transport near quantum critical points spin spectroscopy and coherence in magnetic quantum structures the magnetic structures of rare earth superlattices low energy spin excitations in chromium metal and aging in frustrated magnets Annotation copyrighted by Book News Inc Portland OR

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