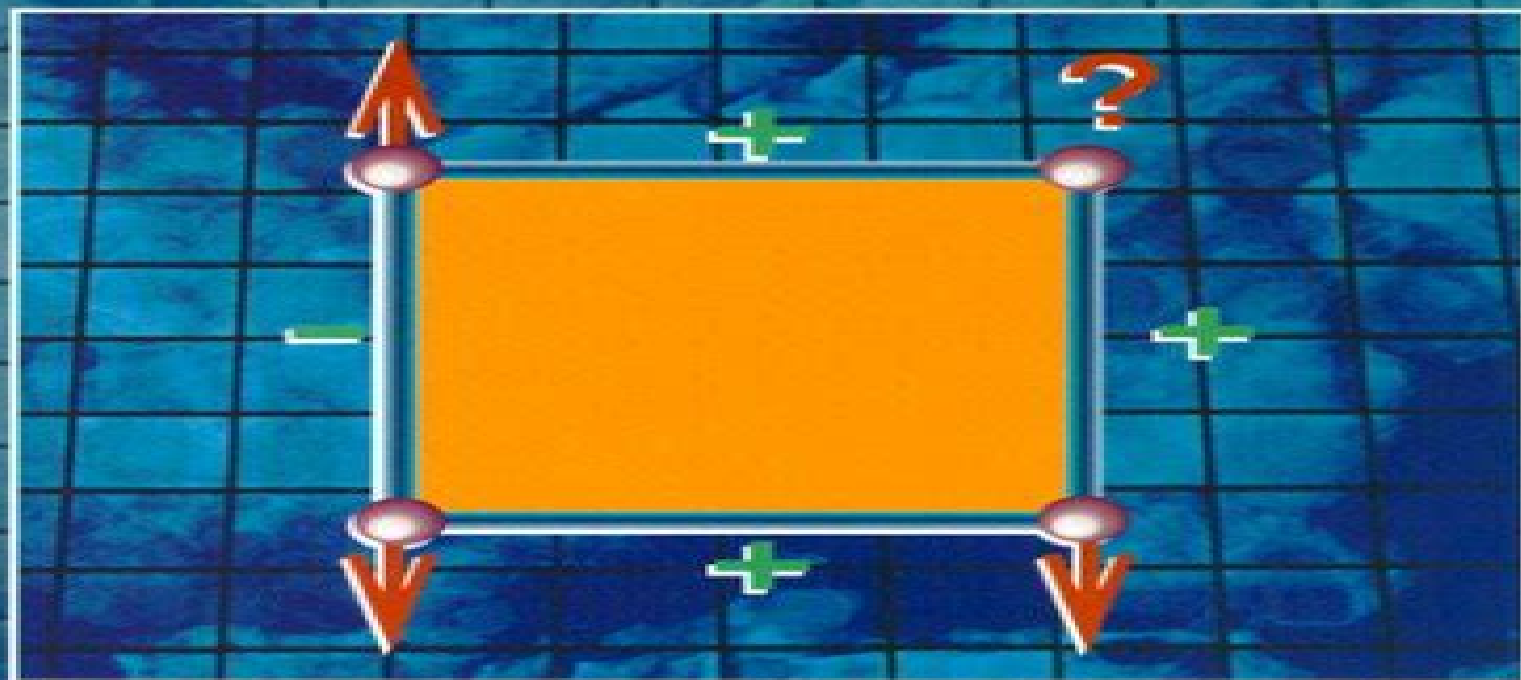


SPIN GLASSES AND RANDOM FIELDS



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Spin Glasses And Random Fields

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Spin Glasses And Random Fields Peter A Young, 1997-12-23 The last few years have seen many developments in the study of frustrated systems such as spin glasses and random fields In addition the application of the idea of spin glasses to other branches of physics such as vortex lines in high temperature superconductors protein folding structural glasses and the vulcanization of rubber has been flourishing The earlier reviews are several years old so now is an appropriate time to summarize the recent developments The articles in this book have been written by leading researchers and include theoretical and experimental studies and large scale numerical work using state of the art algorithms designed specifically for spin glass type problems as well as analytical studies

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Dynamics of Random Magnetic Systems Marcos Lederman, 1991

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

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

Renormalization Group Analysis of Nonequilibrium Phase Transitions in Driven Disordered Systems Taiki Haga, 2019-01-24 This book investigates phase transitions and critical phenomena in disordered systems driven out of equilibrium First the author derives a dimensional reduction property that relates the long distance physics of driven disordered systems to that of lower dimensional pure systems By combining this property with a modern renormalization group technique the critical behavior of random field spin models driven at a uniform velocity is subsequently investigated The highlight of this book is that the driven random field XY model is shown to exhibit the Kosterlitz Thouless transition in three dimensions This is the first example of topological phase transitions in which the 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

Ageing and the Glass Transition Malte Henkel, Michel Pleimling, Roland Sanctuary, 2007-04-24 Understanding cooperative phenomena far from equilibrium is one of the fascinating challenges of present day many body physics Glassy behaviour and the physical ageing process of such materials are paradigmatic examples The present volume primarily intended as introduction and reference collects six extensive lectures addressing selected experimental and theoretical issues in the field of glassy systems

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 *Statistical Mechanics of Classical and Disordered Systems* Véronique Gayrard, Louis-Pierre Arguin, Nicola Kistler, Irina Kourkova, 2019-09-15 These proceedings of the conference Advances in Statistical Mechanics held in Marseille France August 2018 focus on fundamental issues of equilibrium and non equilibrium dynamics for classical mechanical systems as well as on open problems in statistical mechanics related to probability mathematical physics computer science and biology Statistical mechanics as envisioned more than a century ago by Boltzmann Maxwell and Gibbs has recently undergone stunning twists and developments which have turned this old discipline into one of the most active areas of truly interdisciplinary and cutting edge research The contributions to this volume with their rather unique blend of rigorous mathematics and applications outline the state of the art of this success story in key subject areas of equilibrium and non equilibrium classical and quantum statistical mechanics of both disordered and non disordered systems Aimed at researchers in the broad field of applied modern probability theory this book and in particular the review articles will also be of interest to graduate students looking for a gentle introduction to active topics of current research *Statistical Physics And Thermodynamics Of Nonlinear Nonequilibrium Systems* Wolfgang Muschik, Werner Ebeling, 1993-03-27 In these proceedings it is shown that thermodynamical concepts are not old fashioned but still are most useful at the frontiers of modern science Among the contributors are well known experts such as Andresen Copenhagen Eu Montreal Gro mann Marburg Kawasaki Fuhuoha Maugin Paris Nicolis Bruxelles and Sz pfallus Budapest The subject covers a wide field including recent developments in phenomenological thermodynamics statistical foundation of thermodynamical concepts thermodynamical concepts in nonlinear dynamics applications to nonlinear neural networks stochastic theory and transition processes

Glassy Materials And Disordered Solids: An Introduction To Their Statistical Mechanics (Revised Edition) Kurt Binder, Walter Kob, 2011-01-31 This book gives a pedagogical introduction to the physics of amorphous solids and related disordered condensed matter systems Important concepts from statistical mechanics such as percolation random walks fractals and spin glasses are explained Using these concepts the common aspects of these systems are emphasized and the current understanding of the glass transition and the structure of glasses are concisely reviewed This second edition includes new material on emerging topics in the field of disordered systems such as gels driven systems dynamical heterogeneities growing length scales etc as well as an update of the literature in this rapidly developing field *Advanced Ferroelectricity* Robert Blinc, 2011-08-25 Recent exciting advances in the field of ferroelectricity have implications both for basic physics and for technological applications such as memory devices spintronic applications and electro optic devices as well as in acoustics robotics telecommunications and medicine This book provides a full account of recent developments in the field

Vision, Modeling, and Visualization 2002 Günther Greiner, 2002 *Simple Models of Magnetism* Ralph Skomski, 2008-01-18 For hundreds of years models of magnetism have been pivotal in the understanding and advancement of

science and technology from the Earth's interpretation as a magnetic dipole to quantum mechanics statistical physics and modern nanotechnology This book is the first to envision the field of magnetism in its entirety It complements a rich literature on specific models of magnetism and provides an introduction to simple models including some simple limits of complicated models The book is written in an easily accessible style with a limited amount of mathematics and covers a wide range of quantum mechanical finite temperature micromagnetic and dynamical models It deals not only with basic magnetic quantities such as moment Curie temperature anisotropy and coercivity but also with modern areas such as nanomagnetism and spintronics and with exotic themes as exemplified by the polymer analogy of magnetic phase transitions Throughout the book a sharp line is drawn between simple and simplistic models and much space is devoted to discuss the merits and failures of the individual model approaches

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

Convexity and connectivity of the solution space in machine learning problems Maxime Hardy, 2019-01-24

ScientiaRerum Thesis 2018 This thesis investigates properties of the solution space of the machine learning problem of random pattern classification Such properties as convexity of the space of solutions its connectivity and clusterization are studied Evidence has been provided recently that there exists a universality class for random pattern classification models making it possible to study the properties of the whole set of constraint satisfaction problems using the most simple model the perceptron with spherical constraint it is exactly solvable and exhibits the full stack of characteristic properties of that class In order to obtain statistically representative treatment of the model as opposed to the best worst case scenarios we used the well established methods of theoretical physics of disordered systems a k spin glasses In terms of that science this model can be interpreted as a random packing problem and demonstrates the phenomenology of slow glassy relaxation and a jamming transition The specific property of that model is that the corresponding constraint satisfaction problems ceases to

be convex The non convex domain is explored in detail in this thesis and its structure is presented on a phase diagram
Publisher Scientia Rerum academic publishers Paris *String Theory and Its Applications* Michael Dine, Tom Banks, Subir Sachdev, 2011-09-30 The book is based on lectures given at the TASI summer school of 2010 It aims to provide advanced graduate students postdoctorates and senior researchers with a survey of important topics in particle physics and string theory with special emphasis on applications of methods from string theory and quantum gravity in condensed matter physics and QCD especially heavy ion physics **Lectures on the Random Field Ising Model** Slava Rychkov, 2023-09-07 This book is about the Random Field Ising Model RFIM a paradigmatic spin model featuring a frozen disordering field The focus is on the second order phase transition between the paramagnetic and ferromagnetic phases and the associated critical exponents The book starts by summarizing the current knowledge about the RFIM from experiments numerical simulations and rigorous mathematical results It then reviews the classic theoretical works from the 1970 s which suggested a property of dimensional reduction that the RFIM critical exponents should be the same as for the ordinary non disordered Ising model of lower dimensionality and related this to an emergent Parisi Sourlas supersymmetry As is now known these remarkable properties only hold when the spatial dimensionality of the model is larger than a critical dimension The book presents a method to estimate the critical dimension using standard tools such as the replica trick and perturbative renormalization group whose result is in agreement with the numerical simulations Some more elementary steps in the derivations are left as exercises for the readers This book is of interest to researchers PhD students and advanced master students specializing in statistical field theory

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