

Spherical Models

Walter J. Reitinger



Photo A. Icosidodecahedron with pentagrams



Photo B. An icosidodecahedron with pentagrams

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Spherical Models

E. Br̄zin, Spenta R. Wadia



Spherical Models:

Spherical Models Magnus J. Wenninger, 1979-12-12 Well illustrated practical approach to creating star faced spherical forms that can serve as basic structures for geodesic domes Complete instructions for making models from circular bands of paper with just a ruler and compass 1979 edition

Models of Quantum Matter Hans-Peter Eicke, 2019-07-29 An important task of theoretical quantum physics is the building of idealized mathematical models to describe the properties of quantum matter This book provides an introduction to the arguably most important method for obtaining exact results for strongly interacting models of quantum matter the Bethe ansatz It introduces and discusses the physical concepts and mathematical tools used to construct realistic models for a variety of different fields including condensed matter physics and quantum optics The various forms of the Bethe ansatz algebraic coordinate multicomponent and thermodynamic Bethe ansatz and Bethe ansatz for finite systems are then explained in depth and employed to find exact solutions for the physical properties of the integrable forms of strongly interacting quantum systems The Bethe ansatz is one of the very few methodologies which can calculate physical properties non perturbatively Arguably it is the only such method we have which is exact This means once the model has been set up no further approximations or assumptions are necessary and the relevant physical properties of the model can be computed exactly Furthermore an infinite set of conserved quantities can be obtained The quantum mechanical model under consideration is fully integrable This makes the search for quantum models which are amenable to an exact solution by the Bethe ansatz and which are quantum integrable so important and rewarding The exact solution will provide benchmarks for other models which do not admit an exact solution Bethe ansatz techniques provide valuable insight into the physics of strongly correlated quantum matter

3D Parametric Intensity Models for the Localization of 3D Anatomical Point Landmarks and 3D Segmentation of Human Vessels Stefan Wörz, 2006

Equilibrium Statistical Mechanics of Lattice Models David A. Lavis, 2015-01-31 Most interesting and difficult problems in equilibrium statistical mechanics concern models which exhibit phase transitions For graduate students and more experienced researchers this book provides an invaluable reference source of approximate and exact solutions for a comprehensive range of such models Part I contains background material on classical thermodynamics and statistical mechanics together with a classification and survey of lattice models The geometry of phase transitions is described and scaling theory is used to introduce critical exponents and scaling laws An introduction is given to finite size scaling conformal invariance and Schramm Loewner evolution Part II contains accounts of classical mean field methods The parallels between Landau expansions and catastrophe theory are discussed and Ginzburg Landau theory is introduced The extension of mean field theory to higher orders is explored using the Kikuchi Hiymans De Boer hierarchy of approximations In Part III the use of algebraic transformation and decoration methods to obtain exact system information is considered This is followed by an account of the use of transfer matrices for the location of incipient phase transitions in one dimensionally infinite models and for exact solutions for two

dimensionally infinite systems The latter is applied to a general analysis of eight vertex models yielding as special cases the two dimensional Ising model and the six vertex model The treatment of exact results ends with a discussion of dimer models In Part IV series methods and real space renormalization group transformations are discussed The use of the De Neeff Enting finite lattice method is described in detail and applied to the derivation of series for a number of model systems in particular for the Potts model The use of Pad e differential and algebraic approximants to locate and analyze second and first order transitions is described The realization of the ideas of scaling theory by the renormalization group is presented together with treatments of various approximation schemes including phenomenological renormalization Part V of the book contains a collection of mathematical appendices intended to minimise the need to refer to other mathematical sources

Models of Disorder J. M. Ziman, 1979-09-06 Originally published in 1979 this book discusses how the physical and chemical properties of disordered systems such as liquids glasses alloys amorphous semiconductors polymer solutions and magnetic materials can be explained by theories based on a variety of mathematical models including random assemblies of hard spheres tetrahedrally bonded networks and lattices of spins The text describes these models and the various mathematical theories by which the observable properties are derived Techniques and concepts such as the mean field and coherent approximations graphical summation percolation scaling and the renormalisation group are explained and applied This book will be of value to anyone with an interest in theoretical and experimental physics

Geometry and Nonlinear Partial Differential Equations Shing-Tung Yau, Shuxing Chen, 2002 This book presents the proceedings of a conference on geometry and nonlinear partial differential equations dedicated to Professor Bqing Su in honor of his one hundredth birthday It offers a look at current research by Chinese mathematicians in differential geometry and geometric areas of mathematical physics It is suitable for advanced graduate students and research mathematicians interested in geometry topology differential equations and mathematical physics

Disorder and Competition in Soluble Lattice Models Walter F. Wreszinski, Silvio R. A. Salinas, 1993 At present existing literature on this subject matter can only be said to relate in minor areas to this work Important concepts in statistical mechanics such as frustration localization Lifshitz and Griffiths singularities multicritical points modulated phases superselection sectors spontaneous symmetry breaking and the Haldane phase strange attractors and the Hausdorff dimension and many others are illustrated by exactly soluble lattice models There are examples of simple lattice models which are shown to give rise to spectacular phase diagrams with multicritical points and sequences of modulated phases The models are chosen to enable a concise exposition as well as a connection with real physical systems as dilute antiferromagnets spin glasses and modulated magnets A brief introduction to the properties of dynamical systems an overview of conformal invariance and the Bethe Ansatz and a discussion of some general methods of statistical mechanics related to spontaneous symmetry breaking are included in the appendices A number of exercises are included in the text to help the comprehension of the most representative issues

The Large N Expansion in Quantum Field Theory and

Statistical Physics E. Br̄zin, Spenta R. Wadia, 1993 This book contains an edited comprehensive collection of reprints on the subject of the large N limit as applied to a wide spectrum of problems in quantum field theory and statistical mechanics The topics include 1 Spin Systems 2 Large N Limit of Gauge Theories 3 Two Dimensional QCD 4 Exact Results on Planar Perturbation Series and the Nature of the 1 N Series 5 Schwinger Dyson Equations Approach 6 QCD Phenomenological Lagrangians and the Large N Limit 7 Other Approaches to Large N Eguchi Kawai Model Collective Fields and Numerical Methods 8 Matrix Models 9 Two Dimensional Gravity and String Theory *U.S. Geological Survey Professional Paper*, 1984

Seventh Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Gravitation, And Relativistic Field Theories - Proceedings Of The 7th Marcel Grossmann Meeting (In 2 Parts) Remo Ruffini, George Mac Keiser, Robert T Jantzen, 1997-03-19 Since 1975 the triennial Marcel Grossmann Meetings have been organized in order to provide opportunities for discussing recent advances in gravitation general relativity and relativistic field theories emphasizing mathematical foundations physical predictions and experimental tests The proceedings of the Seventh Marcel Grossmann Meeting include the invited papers given at the plenary sessions the summaries of the parallel sessions the contributed papers presented at the parallel sessions and the evening public lectures The authors of these papers discuss many of the recent theoretical observational and experimental developments that have significant implications for the fields of physics cosmology and relativistic astrophysics *Current Topics In Physics: In Honor Of Sir Roger J Elliott* Rafael A Barrio, Kimmo Kaski, 2005-06-28 This indispensable book is a compilation of invited talks delivered at the symposium Current Topics in Physics held in Mexico City in June 2003 to celebrate the 75th birthday of Professor Sir Roger Elliott The contributions have been prepared by research associates former students post doctoral fellows and colleagues of Professor Elliott many of them leading scientists as Sir Roger himself in important research institutes around the world The book gives a very timely and comprehensive overview of various key areas of modern condensed matter and statistical physics 19 original contributions are included grouped in three main areas disorder and dynamical systems structures and glasses electrical and magnetic properties The contributions are by many of the foremost researchers in the field of condensed matter and statistical physics In particular contributions by such prominent scientists as M E Fisher A A Maradudin M F Thorpe M Balkanski T Fujiwara and of course Sir Roger Elliott himself make this book a rewarding read Precision Agricultural Aviation Application Technology Yubin Lan, 2025-05-31 Modern technologies and information tools can be used to maximize agricultural aviation productivity allowing for precision application of agrochemical products This book reviews and summarizes state of the art precision agricultural aviation technologies that include remote sensing aerial spraying and ground verification technologies Furthermore the author discusses the future of precision agricultural aviation technology with emphasis on key development directions in real time image processing variable rate spraying multi sensor data fusion and RTK differential positioning and other supporting technologies for UAV

based aerial spraying This book serves as a reference for industry professionals by summarizing the history and achievements of UAV based technologies and encourages further development of precision agricultural aviation technologies It is the 8th title of the Agriculture Automation and Control book series published by Springer

Theory of Critical Phenomena in Finite-size Systems Jordan Brankov, Daniel M. Danchev, Nicholai S. Tonchev, 2000 The aim of this book is to familiarise the reader with the rich collection of ideas methods and results available in the theory of critical phenomena in systems with confined geometry The existence of universal features of the finite size effects arising due to highly correlated classical or quantum fluctuations is explained by the finite size scaling theory This theory 1 offers an interpretation of experimental results on finite size effects in real systems 2 gives the most reliable tool for extrapolation to the thermodynamic limit of data obtained by computer simulations 3 reveals the intimate mechanism of how the critical singularities build up in the thermodynamic limit and 4 can be fruitfully used to explain the low temperature behaviour of quantum critical systems The exposition is given in a self contained form which presumes the reader's knowledge only in the framework of standard courses on the theory of phase transitions and critical phenomena The instructive role of simple models both classical and quantum is demonstrated by putting the accent on the derivation of rigorous and exact analytical results

EEG/MEG Source Reconstruction Thomas R. Knösche, Jens Haueisen, 2022-10-01 This textbook provides a comprehensive and didactic introduction from the basics to the current state of the art in the field of EEG MEG source reconstruction Reconstructing the generators or sources of electroencephalographic and magnetoencephalographic EEG MEG signals is an important problem in basic neuroscience as well as clinical research and practice Over the past few decades an entire theory together with a whole collection of algorithms and techniques has developed In this textbook the authors provide a unified perspective on a broad range of EEG MEG source reconstruction methods with particular emphasis on their respective assumptions about sources data head tissues and sensor properties An introductory chapter highlights the concept of brain imaging and the particular importance of the neuroelectromagnetic inverse problem This is followed by an in depth discussion of neural information processing and brain signal generation and an introduction to the practice of data acquisition Next the relevant mathematical models for the sources of EEG and MEG are discussed in detail followed by the neuroelectromagnetic forward problem that is the prediction of EEG or MEG signals from those source models using biophysical descriptions of the head tissues and the sensors The main part of this textbook is dedicated to the source reconstruction methods The authors present a theoretical framework of the neuroelectromagnetic inverse problem centered on Bayes theorem which then serves as the basis for a detailed description of a large variety of techniques including dipole fit methods distributed source reconstruction spatial filters and dynamic source reconstruction methods The final two chapters address the important topic of assessment including verification and validation of source reconstruction methods and their actual application to real world scientific and clinical questions This book is intended as basic reading for anybody who is

engaged with EEG MEG source reconstruction be it as a method developer or as a user including advanced undergraduate students PhD students and postdocs in neuroscience biomedical engineering and related fields

Cool Stars with Excesses of Heavy Elements C. Jaschek, P.C. Keenan, 2012-12-06 Proceedings of the Strasbourg Observatory Colloquium held at Strasbourg France June 3 6 1984

Biomag 96 Cheryl J. Aine, Yoshio Okada, Gerhard Stroink, Stephen J. Swithenby, Charles C. Wood, 2013-11-11 A modified Linear Estimation Approach was performed to reconstruct current sources within the heart Based on MRI data sets the Boundary Element Method was used to create tailored multicompartment models of the human thorax which were used to solve the forward problem of magnetocardiography The ability of the proposed method was demonstrated for the localization of a single current dipole as an example of a focal source By means of introducing small shiftings to all reconstruction dipoles during linear estimation solution as well as performing a successive focussing strategy ignoring places without significant electrical activity the method could easily be extended to the reconstruction of real 3D sources Based on a special minimum norm solution the source volume can be estimated applying a finite element approximation using cube elements The size of an extended current source can be estimated by superimposing the reconstructed dipoles to an equivalent dipole and comparing the corresponding volume with the sphere which would be related to the equivalent dipole The deviation of these volumes can be taken as a criterion for non dipolarity of sources

Compact Stars Deog Ki Hong, 2004 Space observations are currently providing a glimpse of various new states of matter possibly present in compact stars with terrestrial laboratories producing compelling evidence in support The aim of this book is to facilitate the exchange of ideas both established and emergent both theoretical and experimental in the areas of the physics of neutrinos dense hadronic matter and compact stars The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

Computational and Structural Approaches to Drug Discovery Robert Stroud, Janet Finer-Moore, 2007-10-31 Computational methods impact all aspects of modern drug discovery and most notably these methods move rapidly from academic exercises to becoming drugs in clinical trials This insightful book represents the experience and understanding of the global experts in the field and spotlights both the structural and medicinal chemistry aspects of drug design The need to encode the factors that determine adsorption distribution metabolism excretion and toxicology are explored as they remain the critical issues in this area of research This indispensable resource provides the reader with A rich understanding of modern approaches to docking A comparison and critical evaluation of state of the art methods Details on harnessing computational methods for both analysis and prediction An insight into prediction potencies and protocols for unbiased evaluations of docking and scoring algorithms Critical reviews of current fragment based methods with perceptive applications to kinases Addressing a wide range of uses of protein structures for drug discovery the Editors have created an essential reference for professionals in the pharmaceutical

industry and moreover an indispensable core text for all graduate level courses covering molecular interactions and drug discovery **Advances in Manufacturing Processes** K. S. Vijay Sekar, Manoj Gupta, A. Arockiarajan, 2018-09-10 This book comprises selected proceedings of the International Conference on Engineering Materials Metallurgy and Manufacturing ICEMMM 2018 It discusses innovative manufacturing processes such as rapid prototyping nontraditional machining advanced computer numerical control CNC machining and advanced metal forming The book particularly focuses on finite element simulation and optimization which aid in reducing experimental costs and time This book is a valuable resource for students researchers and professionals alike **Random Magnetism, High Temperature Superconductivity:**

Proceedings Of T Raymond L Orbach Inauguration Symposium Nai-li Haung Liu, Ward P Beyermann, Douglas E Maclaughlin, 1994-10-25 On 19 March 1993 Raymond L Orbach was inaugurated as the eighth Chancellor of the University of California Riverside In connection with this occasion a two day scientific symposium was held Invited and contributed papers were presented on subjects related to 2 vital areas of condensed matter physics in which Chancellor Orbach has made seminal contributions the effects of disorder on magnetic behavior and the theory of high temperature superconductivity The papers in this book many of which are by outstanding contributors to these important fields give an up to date overview of recent progress

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