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11

Stochastic Processes on a Lattice and Gibbs Measures

**Bernard Prum
Jean Claude Fort**

Kluwer Academic Publishers

Stochastic Processes On A Lattice And Gibbs Measures

Bernard Prum, Jean Claude Fort



Stochastic Processes On A Lattice And Gibbs Measures:

Stochastic Processes on a Lattice and Gibbs Measures Bernard Prum, Jean Claude Fort, 1990-12-31 In many domains one encounters systems of interacting elements elements that interact more forcefully the closer they may be The historical example upon which the theory offered in this book is based is that of magnetization as it is described by the Ising model At the vertices of a regular lattice of sites atoms choose an orientation under the influence of the orientations of the neighboring atoms But other examples are known in physics the theories of gases fluids and in biology cells are increasingly likely to become malignant when their neighboring cells are malignant or in medicine the spread of contagious diseases geogenetics even in the social sciences spread of behavioral traits within a population Beyond the spatial aspect that is related to the idea of neighboring sites the models for all these phenomena exhibit three common features The unavoidable ignorance about the totality of the phenomenon that is being studied and the presence of a great number of often unsuspected factors that are always unquantified lead inevitably to stochastic models The concept of accident is very often inherent to the very nature of the phenomena considered so to justify this procedure one has recourse to the physicist's principle of indeterminacy or for example to the factor of chance in the Mendelian genetics of phenotypes *Stochastic Processes on a Lattice and Gibbs Measure* Bernard Prum, Jean Claude Fort, 1991 **Gibbs Measures and Phase**

Transitions Hans-Otto Georgii, 2011-05-31 This book is much more than an introduction to the subject of its title It covers in depth a broad range of topics in the mathematical theory of phase transition in statistical mechanics and as an up to date reference in its chosen topics it is a work of outstanding scholarship It is in fact one of the author's stated aims that this comprehensive monograph should serve both as an introductory text and as a reference for the expert In its latter function it informs the reader about the state of the art in several directions It is introductory in the sense that it does not assume any prior knowledge of statistical mechanics and is accessible to a general readership of mathematicians with a basic knowledge of measure theory and probability As such it should contribute considerably to the further growth of the already lively interest in statistical mechanics on the part of probabilists and other mathematicians Fredos Papangelou Zentralblatt MATH The second edition has been extended by a new section on large deviations and some comments on the more recent developments in the area *The Statistical Mechanics of Quantum Lattice Systems*, 2009 Quantum statistical mechanics plays a major role in many fields such as thermodynamics plasma physics solid state physics and the study of stellar structure While the theory of quantum harmonic oscillators is relatively simple the case of anharmonic oscillators a mathematical model of a localized quantum particle is more complex and challenging Moreover infinite systems of interacting quantum anharmonic oscillators possess interesting ordering properties with respect to quantum stabilization This book presents a rigorous approach to the statistical mechanics of such systems in particular with respect to their actions on a crystal lattice The text is addressed to both mathematicians and physicists especially those who are concerned with the rigorous

mathematical background of their results and the kind of problems that arise in quantum statistical mechanics The reader will find here a concise collection of facts concepts and tools relevant for the application of path integrals and other methods based on measure and integration theory to problems of quantum physics in particular the latest results in the mathematical theory of quantum anharmonic crystals The methods developed in the book are also applicable to other problems involving infinitely many variables for example in biology and economics *Stochastic Processes - Mathematics and Physics* Sergio Albeverio, Phillippe Blanchard, Ludwig Streit, 2006-11-14 [Gibbs Measures On Cayley Trees](#) Utkir A Rozikov, 2013-07-11

The purpose of this book is to present systematically all known mathematical results on Gibbs measures on Cayley trees Bethe lattices The Gibbs measure is a probability measure which has been an important object in many problems of probability theory and statistical mechanics It is the measure associated with the Hamiltonian of a physical system a model and generalizes the notion of a canonical ensemble More importantly when the Hamiltonian can be written as a sum of parts the Gibbs measure has the Markov property a certain kind of statistical independence thus leading to its widespread appearance in many problems outside of physics such as biology Hopfield networks Markov networks and Markov logic networks Moreover the Gibbs measure is the unique measure that maximizes the entropy for a given expected energy The method used for the description of Gibbs measures on Cayley trees is the method of Markov random field theory and recurrent equations of this theory but the modern theory of Gibbs measures on trees uses new tools such as group theory information flows on trees node weighted random walks contour methods on trees and nonlinear analysis This book discusses all the mentioned methods which were developed recently [Equilibrium States in Ergodic Theory](#) Gerhard Keller, 1998-01-22 This book provides a detailed introduction to the ergodic theory of equilibrium states giving equal weight to two of its most important applications namely to equilibrium statistical mechanics on lattices and to time discrete dynamical systems It starts with a chapter on equilibrium states on finite probability spaces which introduces the main examples for the theory on an elementary level After two chapters on abstract ergodic theory and entropy equilibrium states and variational principles on compact metric spaces are introduced emphasizing their convex geometric interpretation Stationary Gibbs measures large deviations the Ising model with external field Markov measures Sinai Bowen Ruelle measures for interval maps and dimension maximal measures for iterated function systems are the topics to which the general theory is applied in the last part of the book The text is self contained except for some measure theoretic prerequisites which are listed with references to the literature in an appendix **Contemporary Combinatorics** Bela Bollobas, 2002-05-28 This volume is a collection of survey papers in combinatorics that have grown out of lectures given in the workshop on Probabilistic Combinatorics at the Paul Erdős Summer Research Center in Mathematics in Budapest The papers reflecting the many facets of modern day combinatorics will be appreciated by specialists and general mathematicians alike assuming relatively little background each paper gives a quick introduction to an active area enabling

the reader to learn about the fundamental results and appreciate some of the latest developments An important feature of the articles very much in the spirit of Erdős is the abundance of open problems

Dirichlet Forms and Stochastic Processes
 Zhiming Ma, M. Röckner, J.A. Yan, 2011-06-24 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications

On Klauder's Path: A Field Trip
 Gerard Gustav Emch, Ludwig Streit, Gerhard C Hegerfeldt, 1994-04-27 This volume contains contributions by friends colleagues and associates of John R Klauder on the occasion of his 60th birthday Klauder's scientific work embraces vast territories from quantum theories to general relativity optics and chaotic dynamics A recurrent theme in his research is the role played by coherent states in particular in connection with path integral formulations of quantization Perhaps at a less lofty level this concept has had at least two spectacular applications as a powerful investigative tool in quantum optics and as a precursor to wavelets In a different vein Klauder also attacked specific non renormalizable but exactly soluble hard core models in field theory where he uncovered what has since been called the Klauder phenomenon The contributors to this volume represent the special brand of mathematicians and physicists John Klauder helped define throughout his seminal career in the industrial and academic worlds

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