

Mathematical Physics Studies

A Supplementary Series to Lecture in Mathematical Physics

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

Hardy Hanappi



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 *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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Segmentation-based Compression of Monochrome and Color Still Images Iftexhar Hussain, 1995 **American Journal of Physics** , 1991 *Hybrid Systems* , 1995 Vols for 1996 consist of papers presented at the 4th International Conference on Hybrid Systems *American Book Publishing Record* , 1991 **Markov Processes and Related Fields** , 2004 Stochastic Methods in Mathematics and Physics R. Gielerak, Witold Karwowski, 1989 **Physics Briefs** , 1994 **Infinite dimensional harmonic analysis** Herbert Heyer, Takeshi Hirai, 1996 **Probability Theory Subject Indexes from Mathematical Reviews** American Mathematical Society, 1987 **Infinite Dimensional Harmonic Analysis III** Herbert Heyer, 2005 This volume contains contributions on recent results in infinite dimensional harmonic analysis and its applications to probability theory Some papers deal with purely analytic topics such as Frobenius reciprocity diffeomorphism groups equivariant fibrations and Harish Chandra modules Several other papers touch upon stochastic processes in particular Levy processes The majority of the contributions emphasize on the algebraic topological aspects of the theory by choosing configuration spaces locally compact groups and hypergroups as their basic structures The volume provides a useful survey of innovative work pertaining to a highly actual section of modern analysis in its pure and applied shapings **Russian Mathematical Surveys** , 1988 The Cumulative Book Index , 1992 A world list of books in the English language

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Stochastic Processes On A Lattice And Gibbs Measures**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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