MATHEMATICAL FOUNDATIONS OF QUANTUM STATISTICS

A. Y. Khinchin

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Mathematical Foundations of Quantum Statistics Aleksandr Iakovlevich Khinchin,1960 **Mathematical Foundations of Quantum Statistics** A. Y. Khinchin,2013-02-21 A coherent well organized look at the basis of quantum statistics computational methods the determination of the mean values of occupation numbers the foundations of the statistics of photons and material particles thermodynamics **Mathematical Foundations of Quantum Statistics** Aleksandr I॒A॒kovlevich Khinchin,1960 *Mathematical Foundations of Quantum Statistics* Aleksandr Iakovlevich Khinchin,1949-06-01 Symplectic Geometry and Quantum Mechanics Maurice A. de Gosson,2006-08-06 This book offers a complete discussion of techniques and topics intervening in the mathematical treatment of quantum and semi classical mechanics It starts with a very readable introduction to symplectic geometry Many topics are also of genuine interest for pure mathematicians working in geometry and topology **Probability Distributions in Quantum Statistical Mechanics** Mark A. Kon,2006-11-14 *Information Complexity and Control in Quantum Physics* A. Blaquiere,S. Diner,G. Lochak,2014-05-04 **Local Limit Theorems for Inhomogeneous Markov Chains** Dmitry Dolgopyat,Omri M. Sarig,2023-07-31 This book extends the local central limit theorem to Markov chains whose state spaces and transition probabilities are allowed to change in time Such chains are used to model Markovian systems depending on external time dependent parameters The book develops a new general theory of local limit theorems for additive functionals of Markov chains in the regimes of local moderate and large deviations and provides nearly optimal conditions for the classical expansions as well as asymptotic corrections when these conditions fail Applications include local limit theorems for independent but not identically distributed random variables Markov chains in random environments and time dependent perturbations of homogeneous Markov chains The inclusion of appendices with background material numerous examples and an account of the historical background of the subject make this self contained book accessible to graduate students It will also be useful for researchers in probability and ergodic theory who are interested in asymptotic behaviors Markov chains in random environments random dynamical systems and non stationary systems **Stochastic Processes, Multiscale Modeling, and Numerical Methods for Computational Cellular Biology** David Holcman,2017-10-04 This book focuses on the modeling and mathematical analysis of stochastic dynamical systems along with their simulations The collected chapters will review fundamental and current topics and approaches to dynamical systems in cellular biology This text aims to develop improved mathematical and computational methods with which to study biological processes At the scale of a single cell stochasticity becomes important due to low copy numbers of biological molecules such as mRNA and proteins that take part in biochemical reactions driving cellular processes When trying to describe such biological processes the traditional deterministic models are often inadequate precisely because of these low copy numbers This book presents stochastic models which are necessary to account for small particle numbers and extrinsic noise sources The complexity of these models

depend upon whether the biochemical reactions are diffusion limited or reaction limited In the former case one needs to adopt the framework of stochastic reaction diffusion models while in the latter one can describe the processes by adopting the framework of Markov jump processes and stochastic differential equations Stochastic Processes Multiscale Modeling and Numerical Methods for Computational Cellular Biology will appeal to graduate students and researchers in the fields of applied mathematics biophysics and cellular biology   *Maximum-Entropy and Bayesian Methods in Science and Engineering* G. Erickson,C.R. Smith,2013-03-13 This volume has its origin in the Fifth Sixth and Seventh Workshops on Maximum Entropy and Bayesian Methods in Applied Statistics held at the University of Wyoming August 5 8 1985 and at Seattle University August 5 8 1986 and August 4 7 1987 It was anticipated that the proceedings of these workshops would be combined so most of the papers were not collected until after the seventh workshop Because most of the papers in this volume are in the nature of advancing theory or solving specific problems as opposed to status reports it is believed that the contents of this volume will be of lasting interest to the Bayesian community The workshop was organized to bring together researchers from different fields to critically examine maximum entropy and Bayesian methods in science and engineering as well as other disciplines Some of the papers were chosen specifically to kindle interest in new areas that may offer new tools or insight to the reader or to stimulate work on pressing problems that appear to be ideally suited to the maximum entropy or Bayesian method These workshops and their proceedings could not have been brought to their final form without the support or help of a number of people   **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December   **Dynamics, Information and Complexity in Quantum Systems** Fabio Benatti,2023-08-22 This second edition of Dynamics Information and Complexity in Quantum Systems widens its scope by focussing more on the dynamics of quantum correlations and information in microscopic and mesoscopic systems and their use for metrological and machine learning purposes The book is divided into three parts Part One Classical Dynamical Systems Addresses classical dynamical systems classical dynamical entropy and classical algorithmic complexity Includes a survey of the theory of simple perceptrons and their storage capacity Part Two Quantum Dynamical Systems Focuses on the dynamics of entanglement under dissipative dynamics and its metrological use in finite level quantum systems Discusses the quantum fluctuation approach to large scale mesoscopic systems and their emergent dynamics in quantum systems with infinitely many degrees of freedom Introduces a model of quantum perceptron whose storage capacity is computed and compared with the classical one Part Three Quantum Dynamical Entropies and Complexities Devoted to quantum dynamical entropies and algorithmic complexities This book is meant for advanced students young and senior researchers working in the fields of quantum statistical mechanics quantum information and quantum dynamical systems It is self contained and the only prerequisites needed are a standard knowledge of statistical mechanics quantum mechanics and linear operators on Hilbert spaces   **Books in Print** ,1968   **The**

American Mathematical Monthly ,1961 Includes section Recent publications   **Proceedings** ,2007   **Elements of Information Theory** Thomas M. Cover,Joy A. Thomas,2012-11-28 The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book s tradition of clear thought provoking instruction Readers are provided once again with an instructive mix of mathematics physics statistics and information theory All the essential topics in information theory are covered in detail including entropy data compression channel capacity rate distortion network information theory and hypothesis testing The authors provide readers with a solid understanding of the underlying theory and applications Problem sets and a telegraphic summary at the end of each chapter further assist readers The historical notes that follow each chapter recap the main points The Second Edition features Chapters reorganized to improve teaching 200 new problems New material on source coding portfolio theory and feedback capacity Updated references Now current and enhanced the Second Edition of Elements of Information Theory remains the ideal textbook for upper level undergraduate and graduate courses in electrical engineering statistics and telecommunications   Bulletin of the American Mathematical Society American Mathematical Society,1962   **Annals of Mathematics** ,1964 Founded in 1884 Annals of Mathematics publishes research papers in pure mathematics   Statistical Topics and Stochastic Models for Dependent Data with Applications Vlad Stefan Barbu,Nicolas Vergne,2020-11-03 This book is a collective volume authored by leading scientists in the field of stochastic modelling associated statistical topics and corresponding applications The main classes of stochastic processes for dependent data investigated throughout this book are Markov semi Markov autoregressive and piecewise deterministic Markov models The material is divided into three parts corresponding to i Markov and semi Markov processes ii autoregressive processes and iii techniques based on divergence measures and entropies A special attention is payed to applications in reliability survival analysis and related fields   **Notices of the American Mathematical Society** American Mathematical Society,1961 Contains articles of significant interest to mathematicians including reports on current mathematical research

Unveiling the Magic of Words: A Report on "**Mathematical Foundations Of Quantum Statistics A Y Khinchin**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mathematical Foundations Of Quantum Statistics A Y Khinchin,**" a mesmerizing literary masterpiece penned by way of 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 into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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