Stochastic Processes in Classical and Quantum Systems (Lecture Notes in Physics)

Albeverio, S.

Stochastic Processes In Classical And Quantum Systems

Bassano Vacchini

Stochastic Processes In Classical And Quantum Systems :

Stochastic Processes in Classical and Quantum Systems Sergio A. Albeverio (Mathematician, Switzerland, Germany),Giulio Casati,D. Merlini,1986   Stochastic Processes in Classical and Quantum Systems Sergio A. Albeverio (Mathematician, Switzerland, Germany),Giulio Casati,D. Merlini,1986   **Open Quantum Systems II** Stéphane Attal,2006-06-07 Understanding dissipative dynamics of open quantum systems remains a challenge in mathematical physics This problem is relevant in various areas of fundamental and applied physics Significant progress in the understanding of such systems has been made recently These books present the mathematical theories involved in the modeling of such phenomena They describe physically relevant models develop their mathematical analysis and derive their physical implications   **Stochastic Processes in Classical and Quantum Systems** Sergio Albeverio,Giulio Casati,D. Merlini,1986   *Stochastic processes in classical and quantum systems* Huzihiro Araki,1986   **ISCS 2014: Interdisciplinary Symposium on Complex Systems** Ali Sanayei,Otto E. Rössler,Ivan Zelinka,2014-08-28 The book you hold in your hands is the outcome of the 2014 Interdisciplinary Symposium on Complex Systems held in the historical city of Florence The book consists of 37 chapters from 4 areas of Physical Modeling of Complex Systems Evolutionary Computations Complex Biological Systems and Complex Networks All 4 parts contain contributions that give interesting point of view on complexity in different areas in science and technology The book starts with a comprehensive overview and classification of complexity problems entitled Physics in the world of ideas Complexity as Energy followed by chapters about complexity measures and physical principles its observation modeling and its applications to solving various problems including real life applications Further chapters contain recent research about evolution randomness and complexity as well as complexity in biological systems and complex networks All selected papers represent innovative ideas philosophical overviews and state of the art discussions on aspects of complexity The book will be useful as an instructional material for senior undergraduate and entry level graduate students in computer science physics applied mathematics and engineering type work in the area of complexity The book will also be valuable as a resource of knowledge for practitioners who want to apply complexity to solve real life problems in their own challenging applications   **Statistical Physics and Dynamical Systems** FRITZ,JAFFE,SZASZ,2013-11-22   **Noncommutative Mathematics for Quantum Systems** Uwe Franz,Adam Skalski,2016-01-07 Noncommutative mathematics is a significant new trend of mathematics Initially motivated by the development of quantum physics the idea of making theory noncommutative has been extended to many areas of pure and applied mathematics This book is divided into two parts The first part provides an introduction to quantum probability focusing on the notion of independence in quantum probability and on the theory of quantum stochastic processes with independent and stationary increments The second part provides an introduction to quantum dynamical systems discussing analogies with fundamental problems studied in classical dynamics The desire to build an extension of the classical theory

provides new original ways to understand well known commutative results On the other hand the richness of the quantum mathematical world presents completely novel phenomena never encountered in the classical setting This book will be useful to students and researchers in noncommutative probability mathematical physics and operator algebras   Open Quantum Systems Bassano Vacchini,2024-12-30 The proposed book is a bridge between the foundations of quantum mechanics and the theory of open quantum systems The treatment of open quantum systems is a rapidly growing subject of interest to an ever increasing number of scientists The main focus is on overcoming the idealization of perfect isolation of a quantum system so as to allow for a more realistic treatment and to provide the relevant background for the development of quantum technologies The book is addressed to students and researchers in the field of open quantum systems and more generally quantum mechanics a wide community of physicists mathematicians and chemists It is devised both to enter the field and to prepare a series of lectures or a one semester course on the topic   *Encyclopaedia of Mathematics* Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MA THEMA TICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques   **Generated Dynamics of Markov and Quantum Processes** Martin Janßen,2016-04-28 This book presents Markov and quantum processes as two sides of a coin called generated stochastic processes It deals with quantum processes as reversible stochastic processes generated by one step unitary operators while Markov processes are irreversible stochastic processes generated by one step stochastic operators The characteristic feature of quantum processes are oscillations interference lots of stationary states in bounded systems and possible asymptotic stationary scattering states in open systems while the characteristic feature of Markov processes are relaxations to a single stationary state Quantum processes apply to systems where all variables that control reversibility are taken as relevant variables while Markov processes emerge when some of those variables cannot be followed and are thus

irrelevant for the dynamic description Their absence renders the dynamic irreversible A further aim is to demonstrate that almost any subdiscipline of theoretical physics can conceptually be put into the context of generated stochastic processes Classical mechanics and classical field theory are deterministic processes which emerge when fluctuations in relevant variables are negligible Quantum mechanics and quantum field theory consider genuine quantum processes Equilibrium and non equilibrium statistics apply to the regime where relaxing Markov processes emerge from quantum processes by omission of a large number of uncontrollable variables Systems with many variables often self organize in such a way that only a few slow variables can serve as relevant variables Symmetries and topological classes are essential in identifying such relevant variables The third aim of this book is to provide conceptually general methods of solutions which can serve as starting points to find relevant variables as to apply best practice approximation methods Such methods are available through generating functionals The potential reader is a graduate student who has heard already a course in quantum theory and equilibrium statistical physics including the mathematics of spectral analysis eigenvalues eigenvectors Fourier and Laplace transformation The reader should be open for a unifying look on several topics **Lévy Matters I** Thomas Duquesne,Oleg Reichmann,Ken-iti Sato,Christoph Schwab,2010-09-02 Focusing on the breadth of the topic this volume explores L vy processes and applications and presents the state of the art in this evolving area of study These expository articles help to disseminate important theoretical and applied research to those studying the field **Paris-Princeton Lectures on Mathematical Finance 2010** Areski Cousin,Stéphane Crépey,Olivier Guéant,David Hobson,Monique Jeanblanc,Jean-Michel Lasry,Jean-Paul Laurent,Pierre-Louis Lions,Peter Tankov,2011-06-29 The Paris Princeton Lectures in Financial Mathematics of which this is the fourth volume publish cutting edge research in self contained expository articles from outstanding specialists established or on the rise The aim is to produce a series of articles that can serve as an introductory reference source for research in the field The articles are the result of frequent exchanges between the finance and financial mathematics groups in Paris and Princeton The present volume sets standards with five articles by 1 Areski Cousin Monique Jeanblanc and Jean Paul Laurent 2 St phane Cr pey 3 Olivier Gu ant Jean Michel Lasry and Pierre Louis Lions 4 David Hobson and 5 Peter Tankov **Morrey and Campanato Meet Besov, Lizorkin and Triebel** Wen Yuan,Winfried Sickel,Dachun YANG,2010-09-18 During the last 60 years the theory of function spaces has been a subject of growing interest and increasing diversity Based on three formally different developments namely the theory of Besov and Triebel Lizorkin spaces the theory of Morrey and Campanato spaces and the theory of Q spaces the authors develop a unified framework for all of these spaces As a byproduct the authors provide a completion of the theory of Triebel Lizorkin spaces when p *The Analysis of Fractional Differential Equations* Kai Diethelm,2010-09-03 Fractional calculus was first developed by pure mathematicians in the middle of the 19th century Some 100 years later engineers and physicists have found applications for these concepts in their areas However there has traditionally been little interaction between these two communities In

particular typical mathematical works provide extensive findings on aspects with comparatively little significance in applications and the engineering literature often lacks mathematical detail and precision This book bridges the gap between the two communities It concentrates on the class of fractional derivatives most important in applications the Caputo operators and provides a self contained thorough and mathematically rigorous study of their properties and of the corresponding differential equations The text is a useful tool for mathematicians and researchers from the applied sciences alike It can also be used as a basis for teaching graduate courses on fractional differential equations   Stable Approximate Evaluation of Unbounded Operators Charles W. Groetsch,2006-11-15 This book teams up the spectral theory of bounded linear operators with von Neumann s theory of unbounded operators to provide a framework for the study of stable methods for the evaluation of unbounded operators The text presents numerous illustrations of unbounded linear operators that arise in various inverse problems of mathematical physics It also offers an extensive exposition of background material from the theory of operators on Hilbert space   **Encyclopaedia of Mathematics** M. Hazewinkel,2013-12-01   *Open Quantum Systems III* Stéphane Attal,Alain Joye,Claude-Alain Pillet,2006-08-18 This volume is the third and last of a series devoted to the lecture notes of the Grenoble Summer School on Open Quantum Systems which took place at the th th Institut Fourier from June 16 to July 4 2003 The contributions presented in this volumecorrespondtoexpanded versionsofthelecturenotesprovidedbytheauthors to the students of the Summer School The corresponding lectures were scheduled in the last part of the School devoted to recent developments in the study of Open Quantum Systems Whereas the rst two volumes were dedicated to a detailed exposition of the mathematical techniques and physical concepts relevant in the study of Open S tems with noapriori pre requisites the contributions presented in this volume request from the reader some familiarity with these aspects Indeed the material presented here aims at leading the reader already acquainted with the basics in quantum statistical mechanics spectral theory of linear operators C dynamical systems and quantum stochastic differential equations to the front of the current research done on various aspects of Open Quantum Systems Nevertheless pe gogical efforts have been made by the various authors of these notes so that this volume should be essentially self contained for a reader with minimal previous posure to the themes listed above In any case the reader in need of complements can always turn to these rst two volumes The topics covered in these lectures notes start with an introduction to n equilibrium quantum statistical mechanics   Inverse Problems and Imaging Luis L. Bonilla,2009-06-19 Nowadays we are facing numerous and important imaging problems nondestructive testing of materials monitoring of industrial processes enhancement of oil production by efficient reservoir characterization emerging developments in noninvasive imaging techniques for medical purposes computerized tomography CT magnetic resonance imaging MRI positron emission tomography PET X ray and ultrasound tomography etc In the CIME Summer School on Imaging Martina Franca Italy 2002 leading experts in mathematical techniques and applications presented broad and useful introductions for non experts and

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