

Stability Problems for
Stochastic Models:
Proceedings of the 11th
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Mathematics)

Kalashnikov, V. V.

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Stability Problems For Stochastic Models Lecture Notes In Mathematics Volume 141

Peter E. Kloeden, Eckhard Platen



Stability Problems For Stochastic Models Lecture Notes In Mathematics Volume 141:

Stability Problems for Stochastic Models: Theory and Applications Alexander Zeifman, Victor Korolev, Alexander Sipin, 2021-03-05 The aim of this Special Issue of Mathematics is to commemorate the outstanding Russian mathematician Vladimir Zolotarev whose 90th birthday will be celebrated on February 27th 2021 The present Special Issue contains a collection of new papers by participants in sessions of the International Seminar on Stability Problems for Stochastic Models founded by Zolotarev Along with research in probability distributions theory limit theorems of probability theory stochastic processes mathematical statistics and queuing theory this collection contains papers dealing with applications of stochastic models in modeling of pension schemes modeling of extreme precipitation construction of statistical indicators of scientific publication importance and other fields

Limit Theorems for Randomly Stopped Stochastic Processes Dmitrii S. Silvestrov, 2012-12-06 Limit theorems for stochastic processes are an important part of probability theory and mathematical statistics and one model that has attracted the attention of many researchers working in the area is that of limit theorems for randomly stopped stochastic processes This volume is the first to present a state of the art overview of this field with many of the results published for the first time It covers the general conditions as well as the basic applications of the theory and it covers and demystifies the vast and technically demanding Russian literature in detail A survey of the literature and an extended bibliography of works in the area are also provided The coverage is thorough streamlined and arranged according to difficulty for use as an upper level text if required It is an essential reference for theoretical and applied researchers in the fields of probability and statistics that will contribute to the continuing extensive studies in the area and remain relevant for years to come

Numerical Solution of Stochastic Differential Equations with Jumps in Finance Eckhard Platen, Nicola Bruti-Liberati, 2010-07-23 In financial and actuarial modeling and other areas of application stochastic differential equations with jumps have been employed to describe the dynamics of various state variables The numerical solution of such equations is more complex than that of those only driven by Wiener processes described in Kloeden Platen Numerical Solution of Stochastic Differential Equations 1992 The present monograph builds on the above mentioned work and provides an introduction to stochastic differential equations with jumps in both theory and application emphasizing the numerical methods needed to solve such equations It presents many new results on higher order methods for scenario and Monte Carlo simulation including implicit predictor corrector extrapolation Markov chain and variance reduction methods stressing the importance of their numerical stability Furthermore it includes chapters on exact simulation estimation and filtering Besides serving as a basic text on quantitative methods it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding Finance is chosen as the area of application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance Moreover the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and

insurance beyond the standard risk neutral approach It requires undergraduate background in mathematical or quantitative methods is accessible to a broad readership including those who are only seeking numerical recipes and includes exercises that help the reader develop a deeper understanding of the underlying mathematics

Proceedings of the International Conference on Stochastic Analysis and Applications Sergio Albeverio, Anne Boutet de Monvel, Habib

Ouerdiane, 2004-07-28 Stochastic analysis is a field of mathematical research having numerous interactions with other domains of mathematics such as partial differential equations riemannian path spaces dynamical systems optimization It also has many links with applications in engineering finance quantum physics and other fields This book covers recent and diverse aspects of stochastic and infinite dimensional analysis The included papers are written from a variety of standpoints white noise analysis Malliavin calculus quantum stochastic calculus by the contributors and provide a broad coverage of the subject This volume will be useful to graduate students and research mathematicians wishing to get acquainted with recent developments in the field of stochastic analysis

Stable Non-Gaussian Random Processes Gennady Samoradnitsky, M.S. Taqqu, 2017-11-22 This book serves as a standard reference making this area accessible not only to researchers in probability and statistics but also to graduate students and practitioners The book assumes only a first year graduate course in probability Each chapter begins with a brief overview and concludes with a wide range of exercises at varying levels of difficulty The authors supply detailed hints for the more challenging problems and cover many advances made in recent years

Numerical Solution of Stochastic Differential Equations Peter E. Kloeden, Eckhard Platen, 2013-04-17 The aim of this book is to provide an accessible introduction to stochastic differential equations and their applications together with a systematic presentation of methods available for their numerical solution During the past decade there has been an accelerating interest in the development of numerical methods for stochastic differential equations SDEs This activity has been as strong in the engineering and physical sciences as it has in mathematics resulting inevitably in some duplication of effort due to an unfamiliarity with the developments in other disciplines Much of the reported work has been motivated by the need to solve particular types of problems for which even more so than in the deterministic context specific methods are required The treatment has often been heuristic and ad hoc in character Nevertheless there are underlying principles present in many of the papers an understanding of which will enable one to develop or apply appropriate numerical schemes for particular problems or classes of problems

Matrices and Graphs Stability Problems in Mathematical Ecology D. Logofet, 2018-02-01 Intuitive ideas of stability in dynamics of a biological population community or ecosystem can be formalized in the framework of corresponding mathematical models These are often represented by systems of ordinary differential equations or difference equations Matrices and Graphs covers achievements in the field using concepts from matrix theory and graph theory The book effectively surveys applications of mathematical results pertinent to issues of theoretical and applied ecology The only mathematical prerequisite for using Matrices and Graphs is a working knowledge of

linear algebra and matrices The book is ideal for biomathematicians ecologists and applied mathematicians doing research on dynamic behavior of model populations and communities consisting of multi component systems It will also be valuable as a text for a graduate level topics course in applied math or mathematical ecology Ship Motion Control Tristan Perez, 2006-03-30 engineers into a single volume whilst concentrating on two important research control design problems autopilots with rudder roll stabilization and fin and combined rudder fin stabilization He has been guided by some of the leading marine control academics in particular Mogens Blanke and Thor Fossen indeed Chapters 3 and 4 on kinematics and kinetics of ship motion are jointly authored with Professor Fossen There are some 240 cited references an invaluable resource for interested readers The volume is likely to appeal to a wide range of readers who will each be able to extract something different from the various parts of the monograph Part I has some four chapters on the modelling fundamentals including kinematics dynamics and actuators Part II is a very useful survey of the ship roll stabilization problem and how ship roll performance is measured and assessed This clearly motivates the human necessity for roll reduction and roll stabilization Parts III and IV move on to the control systems aspects of the various stabilization designs Valuable material here includes a study of system performance limitations as caused by the presence of non minimum phase characteristics and actuator saturation Chapter 10 has an interesting historical review of these marine control problems stretching back some thirty years into the 1970s **New Trends in Stochastic Analysis and Related Topics** Huaizhong Zhao, Aubrey Truman, 2012 The volume is dedicated to Professor David Elworthy to celebrate his fundamental contribution and exceptional influence on stochastic analysis and related fields Stochastic analysis has been profoundly developed as a vital fundamental research area in mathematics in recent decades It has been discovered to have intrinsic connections with many other areas of mathematics such as partial differential equations functional analysis topology differential geometry dynamical systems etc Mathematicians developed many mathematical tools in stochastic analysis to understand and model random phenomena in physics biology finance fluid environment science etc This volume contains 12 comprehensive review new articles written by world leading researchers by invitation and their collaborators It covers stochastic analysis on manifolds rough paths Dirichlet forms stochastic partial differential equations stochastic dynamical systems infinite dimensional analysis stochastic flows quantum stochastic analysis and stochastic Hamilton Jacobi theory Articles contain cutting edge research methodology results and ideas in relevant fields They are of interest to research mathematicians and postgraduate students in stochastic analysis probability partial differential equations dynamical systems mathematical physics as well as to physicists financial mathematicians engineers etc **Probability in Banach Spaces** Michel Ledoux, Michel Talagrand, 2013-03-09 Isoperimetric measure concentration and random process techniques appear at the basis of the modern understanding of Probability in Banach spaces Based on these tools the book presents a complete treatment of the main aspects of Probability in Banach spaces integrability and limit theorems for vector valued random variables boundedness and continuity of random

processes and of some of their links to Geometry of Banach spaces via the type and cotype properties Its purpose is to present some of the main aspects of this theory from the foundations to the most important achievements The main features of the investigation are the systematic use of isoperimetry and concentration of measure and abstract random process techniques entropy and majorizing measures Examples of these probabilistic tools and ideas to classical Banach space theory are further developed

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