Peter Imkeller

Two-Parameter Martingales and their Quadratic Variation

2 Parameter Martingales And Their Quadratic Variation

Davar Khoshnevisan

2 Parameter Martingales And Their Quadratic Variation:

Two-Parameter Martingales and Their Quadratic Variation Peter Imkeller,2006-11-15 This book has two fold aims In a first part it gives an introductory thorough and essentially self contained treatment of the general theory of two parameter processes that has developed since around 1975 Apart from two survey papers by Merzbach and Meyer it is the first text of this kind The second part presents the results of recent research by the author on martingale theory and stochastic calculus for two parameter processes Both the results and the methods of these two chapters are almost entirely new and are of particular interest They provide the fundamentals of a general stochastic analysis of two parameter processes including in particular so far inaccessible jump phenomena The typical rader is assumed to have some basic knowledge of the general theory of one parameter martingales The book should be accessible to probabilistically interested mathematicians who a wish to become acquainted with or have a complete treatment of the main features of the general theory of two parameter processes and basics of their stochastic calculus b intend to learn about the most recent developments in this area

The Structure of Two-parameter Martingales and Their Quadratic Variation Peter Imkeller,1986   Martingale Hardy Spaces and their Applications in Fourier Analysis Ferenc Weisz,2006-11-15 This book deals with the theory of one and two parameter martingale Hardy spaces and their use in Fourier analysis and gives a summary of the latest results in this field A method that can be applied for both one and two parameter cases the so called atomic decomposition method is improved and provides a new and common construction of the theory of one and two parameter martingale Hardy spaces A new proof of Carleson s convergence result using martingale methods for Fourier series is given with martingale methods The book is accessible to readers familiar with the fundamentals of probability theory and analysis It is intended for researchers and graduate students interested in martingale theory Fourier analysis and in the relation between them

Probability Theory and Its Applications in China Shijian Yan,Chung-Chun Yang,Jiagang Wang,1991 Probability theory has always been an active field of research in China but until recently almost all of this research was written in Chinese This book contains surveys by some of China s leading probabilists with a fairly complete coverage of theoretical probability and selective coverage of applied topics The purpose of the book is to provide an account of the most significant results in probability obtained in China in the past few decades and to promote communication between probabilists in China and those in other countries This collection will be of interest to graduate students and researchers in mathematics and probability theory as well as to researchers in such areas as physics engineering biochemistry and information science Among the topics covered here are stochastic analysis stochastic differential equations Dirichlet forms Brownian motion and diffusion potential theory geometry of manifolds semi martingales jump Markov processes interacting particle systems entropy production of Markov processes renewal sequences and p functions multi parameter stochastic processes stationary random fields limit theorems strong approximations large deviations stochastic control systems and probability problems in information theory

Topics in Spatial Stochastic Processes Vincenzo Capasso,2003-01-21 The theory of stochastic processes indexed by a partially ordered set has been the subject of much research over the past twenty years The objective of this CIME International Summer School was to bring to a large audience of young probabilists the general theory of spatial processes including the theory of set indexed martingales and to present the different branches of applications of this theory including stochastic geometry spatial statistics empirical processes spatial estimators and survival analysis This theory has a broad variety of applications in environmental sciences social sciences structure of material and image analysis In this volume the reader will find different approaches which foster the development of tools to modelling the spatial aspects of stochastic problems   *Set-Indexed Martingales* Gail Ivanoff,Ely Merzbach,2024-12-15 Set Indexed Martingales offers a unique comprehensive development of a general theory of Martingales indexed by a family of sets The authors establish for the first time an appropriate framework that provides a suitable structure for a theory of Martingales with enough generality to include many interesting examples Developed from first principles the theory brings together the theories of Martingales with a directed index set and set indexed stochastic processes Part One presents several classical concepts extended to this setting including stopping predictability Doob Meyer decompositions martingale characterizations of the set indexed Poisson process and Brownian motion Part Two addresses convergence of sequences of set indexed processes and introduces functional convergence for processes whose sample paths live in a Skorokhod type space and semi functional convergence for processes whose sample paths may be badly behaved Completely self contained the theoretical aspects of this work are rich and promising With its many important applications especially in the theory of spatial statistics and in stochastic geometry Set Indexed Martingales will undoubtedly generate great interest and inspire further research and development of the theory and applications   *Stochastic Processes in Engineering Systems* E. Wong,B. Hajek,2012-12-06 This book is a revision of Stochastic Processes in Information and Dynamical Systems written by the first author E W and published in 1971 The book was originally written and revised to provide a graduate level text in stochastic processes for students whose primary interest is its applications It treats both the traditional topic of sta tionary processes in linear time invariant systems as well as the more modern theory of stochastic systems in which dynamic structure plays a profound role Our aim is to provide a high level yet readily acces sible treatment of those topics in the theory of continuous parameter stochastic processes that are important in the analysis of information and dynamical systems The theory of stochastic processes can easily become abstract In dealing with it from an applied point of view we have found it difficult to decide on the appropriate level of rigor We intend to provide just enough mathematical machinery so that important results can be stated PREFACE vi with precision and clarity so much ofthe theory of stochastic processes is inherently simple if the suitable framework is provided The price of providing this framework seems worth paying even though the ul timate goal is in applications and not the mathematics per se   *Multiparameter Processes* Davar Khoshnevisan,2006-04-10 Multi parameter processes extend the

existing one parameter theory in an elegant way and have many applications to other fields in mathematics such as real analysis functional analysis group theory and analytic number theory to name a few This book on the vast and rapidly developing subject of random fields is designed for a second graduate course in probability Recent work on random fields has made it possible to make it an expository subject which interacts with several other areas in mathematics and has enough mathematical depth to be of use to pure as well as applied mathematicians of many backgrounds **Mathematical Reviews** ,2008 **Stochastic Flows and Jump-Diffusions** Hiroshi Kunita,2019-03-26 This monograph presents a modern treatment of 1 stochastic differential equations and 2 diffusion and jump diffusion processes The simultaneous treatment of diffusion processes and jump processes in this book is unique Each chapter starts from continuous processes and then proceeds to processes with jumps In the first part of the book it is shown that solutions of stochastic differential equations define stochastic flows of diffeomorphisms Then the relation between stochastic flows and heat equations is discussed The latter part investigates fundamental solutions of these heat equations heat kernels through the study of the Malliavin calculus The author obtains smooth densities for transition functions of various types of diffusions and jump diffusions and shows that these density functions are fundamental solutions for various types of heat equations and backward heat equations Thus in this book fundamental solutions for heat equations and backward heatequations are constructed independently of the theory of partial differential equations Researchers and graduate student in probability theory will find this book very useful *Proceedings of the Seventh Conference on Probability Theory* Marius Iosifescu,Șerban Grigorescu,Tiberiu Postelnicu,2020-05-18 No detailed description available for Proceedings of the Seventh Conference on Probability Theory *Convergence in Ergodic Theory and Probability* Vitaly Bergelson,Peter March,Joseph Rosenblatt,2011-06-15 This series is devoted to the publication of monographs lecture resp seminar notes and other materials arising from programs of the OSU Mathemaical Research Institute This includes proceedings of conferences or workshops held at the Institute and other mathematical writings **Random Walk, Brownian Motion, and Martingales** Rabi Bhattacharya,Edward C. Waymire,2021-09-20 This textbook offers an approachable introduction to stochastic processes that explores the four pillars of random walk branching processes Brownian motion and martingales Building from simple examples the authors focus on developing context and intuition before formalizing the theory of each topic This inviting approach illuminates the key ideas and computations in the proofs forming an ideal basis for further study Consisting of many short chapters the book begins with a comprehensive account of the simple random walk in one dimension From here different paths may be chosen according to interest Themes span Poisson processes branching processes the Kolmogorov Chentsov theorem martingales renewal theory and Brownian motion Special topics follow showcasing a selection of important contemporary applications including mathematical finance optimal stopping ruin theory branching random walk and equations of fluids Engaging exercises accompany the theory throughout Random Walk Brownian Motion and

Martingales is an ideal introduction to the rigorous study of stochastic processes Students and instructors alike will appreciate the accessible example driven approach A single graduate level course in probability is assumed **Probability Theory and Mathematical Statistics** ,2002 Stochastic Processes and Financial Mathematics Ludger Rüschendorf,2023-04-04 The book provides an introduction to advanced topics in stochastic processes and related stochastic analysis and combines them with a sound presentation of the fundamentals of financial mathematics It is wide ranging in content while at the same time placing much emphasis on good readability motivation and explanation of the issues covered Financial mathematical topics are first introduced in the context of discrete time processes and then transferred to continuous time models The basic construction of the stochastic integral and the associated martingale theory provide fundamental methods of the theory of stochastic processes for the construction of suitable stochastic models of financial mathematics e g using stochastic differential equations Central results of stochastic analysis such as the It formula Girsanov s theorem and martingale representation theorems are of fundamental importance in financial mathematics e g for the risk neutral valuation formula Black Scholes formula or the question of the hedgeability of options and the completeness of market models Chapters on the valuation of options in complete and incomplete markets and on the determination of optimal hedging strategies conclude the range of topics Advanced knowledge of probability theory is assumed in particular of discrete time processes martingales Markov chains and continuous time processes Brownian motion L vy processes processes with independent increments Markov processes The book is thus suitable for advanced students as a companion reading and for instructors as a basis for their own courses This book is a translation of the original German 1st edition Stochastische Prozesse und Finanzmathematik by Ludger R schendorf published by Springer Verlag GmbH Germany part of Springer Nature in 2020 The translation was done with the help of artificial intelligence machine translation by the service DeepL com and in a subsequent editing improved by the author Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors Survival Analysis: State of the Art John P. Klein,Prem Goel,1992-02-29 Survival analysis is a highly active area of research with applications spanning the physical engineering biological and social sciences In addition to statisticians and biostatisticians researchers in this area include epidemiologists reliability engineers demographers and economists The economists survival analysis by the name of duration analysis and the analysis of transition data We attempted to bring together leading researchers with a common interest in developing methodology in survival analysis at the NATO Advanced Research Workshop The research works collected in this volume are based on the presentations at the Workshop Analysis of survival experiments is complicated by issues of censoring where only partial observation of an individual s life length is available and left truncation where individuals enter the study group if their life lengths exceed a given threshold time Application of the theory of counting processes to survival analysis as developed by the Scandinavian School has allowed for substantial

advances in the procedures for analyzing such experiments The increased use of computer intensive solutions to inference problems in survival analysis in both the classical and Bayesian settings is also evident throughout the volume Several areas of research have received special attention in the volume **The Fascination of Probability, Statistics and their Applications** Mark Podolskij,Robert Stelzer,Steen Thorbjørnsen,Almut E. D. Veraart,2015-12-26 Collecting together twenty three self contained articles this volume presents the current research of a number of renowned scientists in both probability theory and statistics as well as their various applications in economics finance the physics of wind blown sand queueing systems risk assessment turbulence and other areas The contributions are dedicated to and inspired by the research of Ole E Barndorff Nielsen who since the early 1960s has been and continues to be a very active and influential researcher working on a wide range of important problems The topics covered include but are not limited to econometrics exponential families L vy processes and infinitely divisible distributions limit theory mathematical finance random matrices risk assessment statistical inference for stochastic processes stochastic analysis and optimal control time series and turbulence The book will be of interest to researchers and graduate students in probability statistics and their applications **Introduction to Stochastic Calculus with Applications** Fima C. Klebaner,2005 This book presents a concise treatment of stochastic calculus and its applications It gives a simple but rigorous treatment of the subject including a range of advanced topics it is useful for practitioners who use advanced theoretical results It covers advanced applications such as models in mathematical finance biology and engineering Self contained and unified in presentation the book contains many solved examples and exercises It may be used as a textbook by advanced undergraduates and graduate students in stochastic calculus and financial mathematics It is also suitable for practitioners who wish to gain an understanding or working knowledge of the subject For mathematicians this book could be a first text on stochastic calculus it is good companion to more advanced texts by a way of examples and exercises For people from other fields it provides a way to gain a working knowledge of stochastic calculus It shows all readers the applications of stochastic calculus methods and takes readers to the technical level required in research and sophisticated modelling This second edition contains a new chapter on bonds interest rates and their options New materials include more worked out examples in all chapters best estimators more results on change of time change of measure random measures new results on exotic options FX options stochastic and implied volatility models of the age dependent branching process and the stochastic Lotka Volterra model in biology non linear filtering in engineering and five new figures Instructors can obtain slides of the text from the author *Bulletin - Institute of Mathematical Statistics* Institute of Mathematical Statistics,1989 **Introduction To Stochastic Calculus With Applications (3rd Edition)** Fima C Klebaner,2012-03-21 This book presents a concise and rigorous treatment of stochastic calculus It also gives its main applications in finance biology and engineering In finance the stochastic calculus is applied to pricing options by no arbitrage In biology it is applied to populations models and in engineering it is applied to filter signal from noise Not everything is

proved but enough proofs are given to make it a mathematically rigorous exposition This book aims to present the theory of stochastic calculus and its applications to an audience which possesses only a basic knowledge of calculus and probability It may be used as a textbook by graduate and advanced undergraduate students in stochastic processes financial mathematics and engineering It is also suitable for researchers to gain working knowledge of the subject It contains many solved examples and exercises making it suitable for self study In the book many of the concepts are introduced through worked out examples eventually leading to a complete rigorous statement of the general result and either a complete proof a partial proof or a reference Using such structure the text will provide a mathematically literate reader with rapid introduction to the subject and its advanced applications The book covers models in mathematical finance biology and engineering For mathematicians this book can be used as a first text on stochastic calculus or as a companion to more rigorous texts by a way of examples and exercises a

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