Daniel Revuz Marc Yor

Continuous Martingales and Brownian Motion

Continuous Martingales And Brownian Motion Grundlehren Der Mathematischen Wissenschaften

Sonja Cox,Martin Hutzenthaler,Arnulf Jentzen

Continuous Martingales And Brownian Motion Grundlehren Der Mathematischen Wissenschaften:

    Continuous Martingales and Brownian Motion Daniel Revuz,Marc Yor,2004-09-07 This is a magnificent book Its purpose is to describe in considerable detail a variety of techniques used by probabilists in the investigation of problems concerning Brownian motion This is THE book for a capable graduate student starting out on research in probability the effect of working through it is as if the authors are sitting beside one enthusiastically explaining the theory presenting further developments as exercises BULLETIN OF THE L M S   *Continuous Martingales and Brownian Motion* D. Revuz,Marc Yor,1999   **Continuous Martingales and Brownian Motion** D. Revuz,Marc Yor,1991-01-09 This book focuses on the probabilistic theory ofBrownian motion This is a good topic to center a discussion around because Brownian motion is in the intersec tioll of many fundamental classes of processes It is a continuous martingale a Gaussian process a Markov process or more specifically a process with in dependent increments it can actually be defined up to simple transformations as the real valued centered process with independent increments and continuous paths It is therefore no surprise that a vast array of techniques may be success fully applied to its study and we consequently chose to organize the book in the following way After a first chapter where Brownian motion is introduced each of the following ones is devoted to a new technique or notion and to some of its applications to Brownian motion Among these techniques two are of para mount importance stochastic calculus the use ofwhich pervades the whole book and the powerful excursion theory both of which are introduced in a self contained fashion and with a minimum of apparatus They have made much easier the proofs of many results found in the epoch making book of It and McKean Diffusion Processes and their Sampie Paths Springer 1965

    Local Times and Excursion Theory for Brownian Motion Ju-Yi Yen,Marc Yor,2013-10-01 This monograph discusses the existence and regularity properties of local times associated to a continuous semimartingale as well as excursion theory for Brownian paths Realizations of Brownian excursion processes may be translated in terms of the realizations of a Wiener process under certain conditions With this aim in mind the monograph presents applications to topics which are not usually treated with the same tools e g arc sine law laws of functionals of Brownian motion and the Feynman Kac formula

    Séminaire de Probabilités XLIV Catherine Donati-Martin,Antoine Lejay,Alain Rouault,2012-05-12 As usual some of the contributions to this 44th S minaire de Probabilit s were presented during the Journ es de Probabilit s held in Dijon in June 2010 The remainder were spontaneous submissions or were solicited by the editors The traditional and historical themes of the S minaire are covered such as stochastic calculus local times and excursions and martingales Some subjects already touched on in the previous volumes are still here free probability rough paths limit theorems for general processes here fractional Brownian motion and polymers and large deviations Lastly this volume explores new topics including variable length Markov chains and peacocks We hope that the whole volume is a good sample of the main streams of current research on probability and stochastic processes in particular those active in France   <u>Analysis of Stochastic Partial Differential</u>

Equations Davar Khoshnevisan,2014-06-11 The general area of stochastic PDEs is interesting to mathematicians because it contains an enormous number of challenging open problems There is also a great deal of interest in this topic because it has deep applications in disciplines that range from applied mathematics statistical mechanics and theoretical physics to theoretical neuroscience theory of complex chemical reactions including polymer science fluid dynamics and mathematical finance The stochastic PDEs that are studied in this book are similar to the familiar PDE for heat in a thin rod but with the additional restriction that the external forcing density is a two parameter stochastic process or what is more commonly the case the forcing is a random noise also known as a generalized random field At several points in the lectures there are examples that highlight the phenomenon that stochastic PDEs are not a subset of PDEs In fact the introduction of noise in some partial differential equations can bring about not a small perturbation but truly fundamental changes to the system that the underlying PDE is attempting to describe The topics covered include a brief introduction to the stochastic heat equation structure theory for the linear stochastic heat equation and an in depth look at intermittency properties of the solution to semilinear stochastic heat equations Specific topics include stochastic integrals la Norbert Wiener an infinite dimensional It type stochastic integral an example of a parabolic Anderson model and intermittency fronts There are many possible approaches to stochastic PDEs The selection of topics and techniques presented here are informed by the guiding example of the stochastic heat equation A co publication of the AMS and CBMS *Stochastic Processes and Applications to Mathematical Finance* Jiro Akahori,Shigeyoshi Ogawa,Shinzo Watanabe,2007 This volume contains the contributions to a conference that is among the most important meetings in financial mathematics Serving as a bridge between probabilists in Japan called the Ito School and known for its highly sophisticated mathematics and mathematical finance and financial engineering the conference elicits the very highest quality papers in the field of financial mathematics *Stochastic Spectral Theory for Selfadjoint Feller Operators* Michael Demuth,Jan A. van Casteren,2012-12-06 A beautiful interplay between probability theory Markov processes martingale theory on the one hand and operator and spectral theory on the other yields a uniform treatment of several kinds of Hamiltonians such as the Laplace operator relativistic Hamiltonian Laplace Beltrami operator and generators of Ornstein Uhlenbeck processes For such operators regular and singular perturbations of order zero and their spectral properties are investigated A complete treatment of the Feynman Kac formula is given The theory is applied to such topics as compactness or trace class properties of differences of Feynman Kac semigroups preservation of absolutely continuous and or essential spectra and completeness of scattering systems The unified approach provides a new viewpoint of and a deeper insight into the subject The book is aimed at advanced students and researchers in mathematical physics and mathematics with an interest in quantum physics scattering theory heat equation operator theory probability theory and spectral theory **Stochastic Processes And Applications To Mathematical Finance - Proceedings Of The 6th Ritsumeikan International Conference** Jiro Akahori,Shigeyoshi

Ogawa,Shinzo Watanabe,2007-04-04 This volume contains the contributions to a conference that is among the most important meetings in financial mathematics Serving as a bridge between probabilists in Japan called the Ito School and known for its highly sophisticated mathematics and mathematical finance and financial engineering the conference elicits the very highest quality papers in the field of financial mathematics   Fractals in Probability and Analysis Christopher J. Bishop,Yuval Peres,2017 A mathematically rigorous introduction to fractals emphasizing examples and fundamental ideas while minimizing technicalities   XIII Symposium on Probability and Stochastic Processes Sergio I. López,Víctor M. Rivero,Alfonso Rocha-Arteaga,Arno Siri-Jégousse,2020-10-16 This volume features a collection of contributed articles and lecture notes from the XIII Symposium on Probability and Stochastic Processes held at UNAM Mexico in December 2017 It is split into two main parts the first one presents lecture notes of the course provided by Mauricio Duarte followed by its second part which contains research contributions of some of the participants   Probability and Real Trees Steven N. Evans,2007-09-26 Random trees and tree valued stochastic processes are of particular importance in many fields Using the framework of abstract tree like metric spaces and ideas from metric geometry Evans and his collaborators have recently pioneered an approach to studying the asymptotic behavior of such objects when the number of vertices goes to infinity This publication surveys the relevant mathematical background and present some selected applications of the theory   Handbook of Macroeconomics John B. Taylor,Harald Uhlig,2016-11-12 Handbook of Macroeconomics Volumes 2A and 2B surveys major advances in macroeconomic scholarship since the publication of Volume 1 1999 carefully distinguishing between empirical theoretical methodological and policy issues including fiscal monetary and regulatory policies to deal with crises unemployment and economic growth As this volume shows macroeconomics has undergone a profound change since the publication of the last volume due in no small part to the questions thrust into the spotlight by the worldwide financial crisis of 2008 With contributions from the world s leading macroeconomists its reevaluation of macroeconomic scholarship and assessment of its future constitute an investment worth making Serves a double role as a textbook for macroeconomics courses and as a gateway for students to the latest research Acts as a one of a kind resource as no major collections of macroeconomic essays have been published in the last decade Builds upon Volume 1 by using its section headings to illustrate just how far macroeconomic thought has evolved   Markov Processes, Feller Semigroups and Evolution Equations J. A. van Casteren,2011 The book provides a systemic treatment of time dependent strong Markov processes with values in a Polish space It describes its generators and the link with stochastic differential equations in infinite dimensions In a unifying way where the square gradient operator is employed new results for backward stochastic differential equations and long time behavior are discussed in depth The book also establishes a link between propagators or evolution families with the Feller property and time inhomogeneous Markov processes This mathematical material finds its applications in several branches of the scientific world among which are mathematical physics hedging models in financial mathematics and population models

Seminar on Stochastic Analysis, Random Fields and Applications III Robert C. Dalang,Marco Dozzi,Francesco Russo,2012-12-06 This volume contains 20 refereed research or review papers presented at the five day Third Seminar on Stochastic Analysis Random Fields and Applications which took place at the Centro Stefano Franscini Monte Verit in Ascona Switzerland from September 20 to 24 1999 The seminar focused on three topics fundamental aspects of stochastic analysis physical modeling and applications to financial engineering The third topic was the subject of a mini symposium on stochastic methods in financial models   **Stochastic Integration by Parts and Functional Itô Calculus** Vlad Bally,Lucia Caramellino,Rama Cont,2016-03-11 This volume contains lecture notes from the courses given by Vlad Bally and Rama Cont at the Barcelona Summer School on Stochastic Analysis July 2012 The notes of the course by Vlad Bally co authored with Lucia Caramellino develop integration by parts formulas in an abstract setting extending Malliavin s work on abstract Wiener spaces The results are applied to prove absolute continuity and regularity results of the density for a broad class of random processes Rama Cont s notes provide an introduction to the Functional It Calculus a non anticipative functional calculus that extends the classical It calculus to path dependent functionals of stochastic processes This calculus leads to a new class of path dependent partial differential equations termed Functional Kolmogorov Equations which arise in the study of martingales and forward backward stochastic differential equations This book will appeal to both young and senior researchers in probability and stochastic processes as well as to practitioners in mathematical finance   **Local Lipschitz Continuity in the Initial Value and Strong Completeness for Nonlinear Stochastic Differential Equations** Sonja Cox,Martin Hutzenthaler,Arnulf Jentzen,2024-05-15 View the abstract   **Consistency Problems for Heath-Jarrow-Morton Interest Rate Models** Damir Filipovic,2004-11-02 Bond markets differ in one fundamental aspect from standard stock markets While the latter are built up to a finite number of trade assets the underlying basis of a bond market is the entire term structure of interest rates an infinite dimensional variable which is not directly observable On the empirical side this necessitates curve fitting methods for the daily estimation of the term structure Pricing models on the other hand are usually built upon stochastic factors representing the term structure in a finite dimensional state space Written for readers with knowledge in mathematical finance in particular interest rate theory and elementary stochastic analysis this research monograph has threefold aims to bring together estimation methods and factor models for interest rates to provide appropriate consistency conditions and to explore some important examples   **Stochastic Calculus** Paolo Baldi,2017-11-09 This book provides a comprehensive introduction to the theory of stochastic calculus and some of its applications It is the only textbook on the subject to include more than two hundred exercises with complete solutions After explaining the basic elements of probability the author introduces more advanced topics such as Brownian motion martingales and Markov processes The core of the book covers stochastic calculus including stochastic differential equations the relationship to partial differential equations numerical methods and simulation as well as applications of stochastic

processes to finance The final chapter provides detailed solutions to all exercises in some cases presenting various solution techniques together with a discussion of advantages and drawbacks of the methods used Stochastic Calculus will be particularly useful to advanced undergraduate and graduate students wishing to acquire a solid understanding of the subject through the theory and exercises Including full mathematical statements and rigorous proofs this book is completely self contained and suitable for lecture courses as well as self study   *Stochastic Optimal Control in Infinite Dimension* Giorgio Fabbri,Fausto Gozzi,Andrzej Święch,2017-06-22 Providing an introduction to stochastic optimal control in infinite dimension this book gives a complete account of the theory of second order HJB equations in infinite dimensional Hilbert spaces focusing on its applicability to associated stochastic optimal control problems It features a general introduction to optimal stochastic control including basic results e g the dynamic programming principle with proofs and provides examples of applications A complete and up to date exposition of the existing theory of viscosity solutions and regular solutions of second order HJB equations in Hilbert spaces is given together with an extensive survey of other methods with a full bibliography In particular Chapter 6 written by M Fuhrman and G Tessitore surveys the theory of regular solutions of HJB equations arising in infinite dimensional stochastic control via BSDEs The book is of interest to both pure and applied researchers working in the control theory of stochastic PDEs and in PDEs in infinite dimension Readers from other fields who want to learn the basic theory will also find it useful The prerequisites are standard functional analysis the theory of semigroups of operators and its use in the study of PDEs some knowledge of the dynamic programming approach to stochastic optimal control problems in finite dimension and the basics of stochastic analysis and stochastic equations in infinite dimensional spaces

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