

Roger Mansuy
Marc Yor

Random Times and Enlargements of Filtrations in a Brownian Setting

1873

$$\begin{aligned}\mathcal{F}_t^{\sigma(X)} &= \mathcal{F}_t \vee \sigma(X) \\ \mathcal{F}_t^\Lambda &= \mathcal{F}_t \vee \sigma(\Lambda \wedge t)\end{aligned}$$

Random Times And Enlargements Of Filtrations In A Brownian Setting Lecture Notes In Mathematics

Bei Hu



Random Times And Enlargements Of Filtrations In A Brownian Setting Lecture Notes In Mathematics:

Random Times and Enlargements of Filtrations in a Brownian Setting Roger Mansuy, Marc Yor, 2006-07-25 In November 2004 M Yor and R Mansuy jointly gave six lectures at Columbia University New York These notes follow the contents of that course covering expansion of filtration formulae BDG inequalities up to any random time martingales that vanish on the zero set of Brownian motion the Azma Emery martingales and chaos representation the filtration of truncated Brownian motion attempts to characterize the Brownian filtration The book accordingly sets out to acquaint its readers with the theory and main examples of enlargements of filtrations of either the initial or the progressive kind It is accessible to researchers and graduate students working in stochastic calculus and excursion theory and more broadly to mathematicians acquainted with the basics of Brownian motion Random Times and Enlargements of Filtrations in a Brownian Setting

Roger Mansuy, Marc Yor, 2006-02-10 In November 2004 M Yor and R Mansuy jointly gave six lectures at Columbia University New York These notes follow the contents of that course covering expansion of filtration formulae BDG inequalities up to any random time martingales that vanish on the zero set of Brownian motion the Azma Emery martingales and chaos representation the filtration of truncated Brownian motion attempts to characterize the Brownian filtration The book accordingly sets out to acquaint its readers with the theory and main examples of enlargements of filtrations of either the initial or the progressive kind It is accessible to researchers and graduate students working in stochastic calculus and excursion theory and more broadly to mathematicians acquainted with the basics of Brownian motion **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 **Dynamic Markov**

Bridges and Market Microstructure Umut Çetin, Albina Danilova, 2018-10-25 This book undertakes a detailed construction of Dynamic Markov Bridges using a combination of theory and real world applications to drive home important concepts and methodologies In Part I theory is developed using tools from stochastic filtering partial differential equations Markov processes and their interplay Part II is devoted to the applications of the theory developed in Part I to asymmetric information models among financial agents which include a strategic risk neutral insider who possesses a private signal concerning the future value of the traded asset non strategic noise traders and competitive risk neutral market makers A thorough analysis of optimality conditions for risk neutral insiders is provided and the implications on equilibrium of non Gaussian extensions are discussed A Markov bridge first considered by Paul Lévy in the context of Brownian motion is a mathematical system that undergoes changes in value from one state to another when the initial and final states are fixed

Markov bridges have many applications as stochastic models of real world processes especially within the areas of Economics and Finance The construction of a Dynamic Markov Bridge a useful extension of Markov bridge theory addresses several important questions concerning how financial markets function among them how the presence of an insider trader impacts market efficiency how insider trading on financial markets can be detected how information assimilates in market prices and the optimal pricing policy of a particular market maker Principles in this book will appeal to probabilists statisticians economists researchers and graduate students interested in Markov bridges and market microstructure theory

Enlargement of Filtration with Finance in View Anna Aksamit, Monique Jeanblanc, 2017-11-18 This volume presents classical results of the theory of enlargement of filtration The focus is on the behavior of martingales with respect to the enlarged filtration and related objects The study is conducted in various contexts including immersion progressive enlargement with a random time and initial enlargement with a random variable The aim of this book is to collect the main mathematical results with proofs previously spread among numerous papers great part of which is only available in French Many examples and applications to finance in particular to credit risk modelling and the study of asymmetric information are provided to illustrate the theory A detailed summary of further connections and applications is given in bibliographic notes which enables to deepen study of the topic This book fills a gap in the literature and serves as a guide for graduate students and researchers interested in the role of information in financial mathematics and in econometric science A basic knowledge of the general theory of stochastic processes is assumed as a prerequisite

Stochastic Calculus via Regularizations
 Francesco Russo, Pierre Vallois, 2022-11-15 The book constitutes an introduction to stochastic calculus stochastic differential equations and related topics such as Malliavin calculus On the other hand it focuses on the techniques of stochastic integration and calculus via regularization initiated by the authors The definitions relies on a smoothing procedure of the integrator process they generalize the usual Itô and Stratonovich integrals for Brownian motion but the integrator could also not be a semimartingale and the integrand is allowed to be anticipating The resulting calculus requires a simple formalism nevertheless it entails pathwise techniques even though it takes into account randomness It allows connecting different types of pathwise and non pathwise integrals such as Young fractional Skorohod integrals enlargement of filtration and rough paths The covariation but also high order variations play a fundamental role in the calculus via regularization which can also be applied for irregular integrators A large class of Gaussian processes various generalizations of semimartingales such that Dirichlet and weak Dirichlet processes are revisited Stochastic calculus via regularization has been successfully used in applications for instance in robust finance and on modeling vortex filaments in turbulence The book is addressed to PhD students and researchers in stochastic analysis and applications to various fields

Option Prices as Probabilities
 Christophe Profeta, Bernard Roynette, Marc Yor, 2010-01-26 Discovered in the seventies Black Scholes formula continues to play a central role in Mathematical Finance We recall this formula Let B_t $0 \leq t \leq T$ note a standard Brownian motion with

$B_0 = F_0$ being its natural filtration. Let E_{B_0} denote the exponential martingale associated to B_0 . This martingale, also called geometric Brownian motion, is a model to describe the evolution of prices of a risky asset. Let for every $K \in \mathbb{R}$, $E_{K, 1}(t)$ and $C_{K, 2}(t)$ denote respectively the price of a European put resp. of a European call associated with this martingale. Let N be the cumulative distribution function of a reduced Gaussian variable $x \sim \mathcal{N}(0, 1)$. The celebrated Black-Scholes formula gives an explicit expression of t and $C_{K, 2}(t)$ in terms of N : $K \log K + \log K + t \sqrt{K N}$. $0.4 K t^2$ and \dots

Séminaire de Probabilités XLIV Catherine Donati-Martin, Antoine Lejay, Alain Rouault, 2012-05-12. As usual, some of the contributions to this 44th Séminaire de Probabilités were presented during the Journées de Probabilités held in Dijon in June 2010. The remainder were spontaneous submissions or were solicited by the editors. The traditional and historical themes of the Séminaire 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.

Theory of Stochastic Integrals Jorge A. León, 2025-03-14. In applications of stochastic calculus, there are phenomena that cannot be analyzed through the classical Itô theory. It is necessary therefore to have a theory based on stochastic integration with respect to these situations. Theory of Stochastic Integrals aims to provide the answer to this problem by introducing readers to the study of some interpretations of stochastic integrals with respect to stochastic processes that are not necessarily semimartingales, such as Volterra-Gaussian processes or processes with bounded p -variation, among which we can mention fractional Brownian motion and Riemann-Liouville fractional process. Features: Self-contained treatment of the topic. Suitable as a teaching or research tool for those interested in stochastic analysis and its applications. Includes original results.

Séminaire de Probabilités LI Catherine Donati-Martin, Antoine Lejay, Alain Rouault, 2022-05-13. This volume presents a selection of texts that reflects the current research streams in probability, with an interest toward topics such as filtrations, Markov processes and Markov chains, as well as large deviations, Stochastic Partial Differential equations, rough paths theory, quantum probabilities and percolation on graphs. The featured contributors are R. L. Karandikar and B. V. Rao, C. Leuridan, M. Vidmar, L. Miclo and P. Patie, A. Bernou, M. E. Caballero and A. Rouault, J. Dedecker, F. Merlevède and E. Rio, F. Brosset, T. Klein, A. Lagnoux and P. Petit, C. Marinelli and L. Scarpa, C. Castaing, N. Marie and P. Raynaud de Fitte, S. Attal, J. Deschamps and C. Pellegrini and N. Eisenbaum.

Mathematics Going Forward Jean-Michel Morel, Bernard Teissier, 2023-05-13. This volume is an original collection of articles by 44 leading mathematicians on the theme of the future of the discipline. The contributions range from musings on the future of specific fields to analyses of the history of the discipline to discussions of open problems and conjectures, including first solutions of unresolved problems. Interestingly, the topics do not cover all of

mathematics but only those deemed most worthy to reflect on for future generations These topics encompass the most active parts of pure and applied mathematics including algebraic geometry probability logic optimization finance topology partial differential equations category theory number theory differential geometry dynamical systems artificial intelligence theory of groups mathematical physics and statistics

Peacocks and Associated Martingales, with Explicit Constructions

Francis Hirsch, Christophe Profeta, Bernard Roynette, Marc Yor, 2011-05-24 We call peacock an integrable process which is increasing in the convex order such a notion plays an important role in Mathematical Finance A deep theorem due to Kellerer states that a process is a peacock if and only if it has the same one dimensional marginals as a martingale Such a martingale is then said to be associated to this peacock In this monograph we exhibit numerous examples of peacocks and associated martingales with the help of different methods construction of sheets time reversal time inversion self decomposability SDE Skorokhod embeddings They are developed in eight chapters with about a hundred of exercises

Advanced Financial

Modelling Hansjörg Albrecher, Wolfgang J. Runggaldier, Walter Schachermayer, 2009-12-15 This book is a collection of state of the art surveys on various topics in mathematical finance with an emphasis on recent modelling and computational approaches The volume is related to a Special Semester on Stochastics with Emphasis on Finance that took place from September to December 2008 at the Johann Radon Institute for Computational and Applied Mathematics of the Austrian Academy of Sciences in Linz Austria

Contemporary Quantitative Finance Carl Chiarella, Alexander

Novikov, 2010-07-23 This volume contains a collection of papers dedicated to Professor Eckhard Platen to celebrate his 60th birthday which occurred in 2009 The contributions have been written by a number of his colleagues and co authors All papers have been viewed and presented as keynote talks at the international conference Quantitative Methods in Finance QMF in Sydney in December 2009 The QMF Conference Series was initiated by Eckhard Platen in 1993 when he was at the Australian tional University ANU in Canberra Since joining UTS in 1997 the conference came to be organised on a much larger scale and has grown to become a signi cant international event in quantitative nance Professor Platen has held the Chair of Quantitative Finance at the University of Technology Sydney UTS jointly in the Faculties of Business and Science since 1997 Prior to this appointment he was the Founding Head of the Centre for Fin cial Mathematics at the Institute of Advanced Studies at ANU a position to which he was appointed in 1994 Eckhard completed a PhD in Mathematics at the Technical University in Dresden in 1975 and in 1985 obtained his Doctor of Science degree Habilitation degree in the German system from the Academy of Sciences in Berlin where he headed the Stochastics group at the Weierstrass Institute

Penalising Brownian Paths Bernard Roynette, Marc Yor, 2009-07-31 Penalising a process is to modify its distribution with a limiting procedure thus defining a new process whose properties differ somewhat from those of the original one We are presenting a number of examples of such penalisations in the Brownian and Bessel processes framework The Martingale theory plays a crucial role A general principle for penalisation emerges from these examples In particular it is shown in the

Brownian framework that a positive sigma finite measure takes a large class of penalisations into account *Topological Complexity of Smooth Random Functions* Robert Adler, Jonathan E. Taylor, 2011-05-18 These notes based on lectures delivered in Saint Flour provide an easy introduction to the authors 2007 Springer monograph *Random Fields and Geometry* While not as exhaustive as the full monograph they are also less exhausting while still covering the basic material typically at a more intuitive and less technical level They also cover some more recent material relating to random algebraic topology and statistical applications The notes include an introduction to the general theory of Gaussian random fields treating classical topics such as continuity and boundedness This is followed by a quick review of geometry both integral and Riemannian with an emphasis on tube formulae to provide the reader with the material needed to understand and use the Gaussian kinematic formula the main result of the notes This is followed by chapters on topological inference and random algebraic topology both of which provide applications of the main results **Blow-up Theories for Semilinear Parabolic Equations**

Bei Hu, 2011-03-17 There is an enormous amount of work in the literature about the blow up behavior of evolution equations It is our intention to introduce the theory by emphasizing the methods while seeking to avoid massive technical computations To reach this goal we use the simplest equation to illustrate the methods these methods very often apply to more general equations **Continuous Martingales and Brownian Motion** Daniel Revuz, Marc Yor, 2013-06-29 This book focuses on the probabilistic theory of Brownian motion This is a good topic to center a discussion around because Brownian motion is in the intersection of many fundamental classes of processes It is a continuous martingale a Gaussian process a Markov process or more specifically a process with independent 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 successfully 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 paramount importance stochastic calculus the use of which 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 Itô and McKean *Diffusion Processes and their Sample Paths* Springer 1965

Counterexamples in Probability Jordan M. Stoyanov, 2014-01-15 While most mathematical examples illustrate the truth of a statement counterexamples demonstrate a statement's falsity Enjoyable topics of study counterexamples are valuable tools for teaching and learning The definitive book on the subject in regards to probability this third edition features the author's revisions and corrections plus a substantial new appendix 2013 edition **Mathematical Reviews**, 2007

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