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PDE and Martingale Methods in Option Pricing

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Enrico Le Donne



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PDE and Martingale Methods in Option Pricing Andrea Pascucci, 2011-04-15 This book offers an introduction to the mathematical probabilistic and numerical methods used in the modern theory of option pricing The text is designed for readers with a basic mathematical background The first part contains a presentation of the arbitrage theory in discrete time In the second part the theories of stochastic calculus and parabolic PDEs are developed in detail and the classical arbitrage theory is analyzed in a Markovian setting by means of PDEs techniques After the martingale representation theorems and the Girsanov theory have been presented arbitrage pricing is revisited in the martingale theory optics General tools from PDE and martingale theories are also used in the analysis of volatility modeling The book also contains an Introduction to Levy processes and Malliavin calculus The last part is devoted to the description of the numerical methods used in option pricing Monte Carlo binomial trees finite differences and Fourier transform

Partial Differential Equations in Action

Sandro Salsa, Gianmaria Verzini, 2022-12-08 This work is an updated version of a book evolved from courses offered on partial differential equations PDEs over the last several years at the Politecnico di Milano These courses had a twofold purpose on the one hand to teach students to appreciate the interplay between theory and modeling in problems arising in the applied sciences and on the other to provide them with a solid theoretical background for numerical methods such as finite elements Accordingly this textbook is divided into two parts The first part chapters 2 to 5 is more elementary in nature and focuses on developing and studying basic problems from the macro areas of diffusion propagation and transport waves and vibrations In the second part chapters 6 to 10 concentrate on the development of Hilbert spaces methods for the variational formulation and the analysis of mainly linear boundary and initial boundary value problems while Chapter 11 deals with vector valued conservation laws extending the theory developed in Chapter 4 The main differences with respect to the previous editions are a new section on reaction diffusion models for population dynamics in a heterogeneous environment several new exercises in almost all chapters a general restyling and a reordering of the last chapters The book is intended as an advanced undergraduate or first year graduate course for students from various disciplines including applied mathematics physics and engineering

Probability Theory II Andrea Pascucci, 2024-09-02 This book offers a modern approach to the theory of continuous time stochastic processes and stochastic calculus The content is treated rigorously comprehensively and independently In the first part the theory of Markov processes and martingales is introduced with a focus on Brownian motion and the Poisson process Subsequently the theory of stochastic integration for continuous semimartingales was developed A substantial portion is dedicated to stochastic differential equations the main results of solvability and uniqueness in weak and strong sense linear stochastic equations and their relation to deterministic partial differential equations Each chapter is accompanied by numerous examples This text stems from over twenty years of teaching experience in stochastic processes and calculus within master s degrees in mathematics quantitative finance and postgraduate courses in

mathematics for applications and mathematical finance at the University of Bologna The book provides material for at least two semester long courses in scientific studies Mathematics Physics Engineering Statistics Economics etc and aims to provide a solid background for those interested in the development of stochastic calculus theory and its applications This text completes the journey started with the first volume of Probability Theory I Random Variables and Distributions through a selection of advanced classic topics in stochastic analysis

Geometric Methods in PDE's Giovanna Citti, Maria Manfredini, Daniele Morbidelli, Sergio Polidoro, Francesco Uguzzoni, 2015-10-31 The analysis of PDEs is a prominent discipline in mathematics research both in terms of its theoretical aspects and its relevance in applications In recent years the geometric properties of linear and nonlinear second order PDEs of elliptic and parabolic type have been extensively studied by many outstanding researchers This book collects contributions from a selected group of leading experts who took part in the INdAM meeting Geometric methods in PDEs on the occasion of the 70th birthday of Ermanno Lanconelli They describe a number of new achievements and or the state of the art in their discipline of research providing readers an overview of recent progress and future research trends in PDEs In particular the volume collects significant results for sub elliptic equations potential theory and diffusion equations with an emphasis on comparing different methodologies and on their implications for theory and applications

Probability Theory I Andrea Pascucci, 2024-10-18 This book provides a concise yet rigorous introduction to probability theory Among the possible approaches to the subject the most modern approach based on measure theory has been chosen although it requires a higher degree of mathematical abstraction and sophistication it is essential to provide the foundations for the study of more advanced topics such as stochastic processes stochastic differential calculus and statistical inference The text originated from the teaching experience in probability and applied mathematics courses within the mathematics degree program at the University of Bologna it is suitable for second or third year students in mathematics physics or other natural sciences assuming multidimensional differential and integral calculus as a prerequisite The four chapters cover the following topics measures and probability spaces random variables sequences of random variables and limit theorems and expectation and conditional distribution The text includes a collection of solved exercises

American-Type Options Dmitrii S. Silvestrov, 2013-11-27 The book gives a systematical presentation of stochastic approximation methods for models of American type options with general pay off functions for discrete time Markov price processes Advanced methods combining backward recurrence algorithms for computing of option rewards and general results on convergence of stochastic space skeleton and tree approximations for option rewards are applied to a variety of models of multivariate modulated Markov price processes The principal novelty of presented results is based on consideration of multivariate modulated Markov price processes and general pay off functions which can depend not only on price but also an additional stochastic modulating index component and use of minimal conditions of smoothness for transition probabilities and pay off functions compactness conditions for log price processes and rate of growth conditions for

pay off functions The book also contains an extended bibliography of works in the area This book is the first volume of the comprehensive two volumes monograph The second volume will present results on structural studies of optimal stopping domains Monte Carlo based approximation reward algorithms and convergence of American type options for autoregressive and continuous time models as well as results of the corresponding experimental studies [Affine Diffusions and Related Processes: Simulation, Theory and Applications](#) Aurélien Alfonsi,2015-04-30 This book gives an overview of affine diffusions from Ornstein Uhlenbeck processes to Wishart processes and it considers some related diffusions such as Wright Fisher processes It focuses on different simulation schemes for these processes especially second order schemes for the weak error It also presents some models mostly in the field of finance where these methods are relevant and provides some numerical experiments The book explains the mathematical background to understand affine diffusions and analyze the accuracy of the schemes *Kolmogorov Operators and Their Applications* Stéphane Menozzi,Andrea Pascucci,Sergio Polidoro,2024-05-29 Kolmogorov equations are a fundamental bridge between the theory of partial differential equations and that of stochastic differential equations that arise in several research fields This volume collects a selection of the talks given at the Cortona meeting by experts in both fields who presented the most recent developments of the theory Particular emphasis has been given to degenerate partial differential equations It processes applications to kinetic theory and to finance **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 **Actuarial and Financial Risks in Life Insurance, Pensions Pensions and Household Finance** Luca Regis,2018-02-22 This book is a printed edition of the Special Issue Actuarial and Financial Risks in Life Insurance Pensions and Household Finance that was published in Risks *Functionals of Multidimensional Diffusions with Applications to Finance* Jan Baldeaux,Eckhard Platen,2013-08-13 This research monograph provides an introduction to tractable multidimensional diffusion models where transition densities Laplace transforms Fourier transforms fundamental solutions or functionals can be obtained in explicit form The book also provides an introduction to the use of Lie symmetry group methods for diffusions which allows to compute a wide range of functionals Besides the well known methodology on affine diffusions it presents a novel approach to affine processes with applications in finance Numerical methods including Monte Carlo and quadrature methods are discussed together with supporting material on stochastic processes Applications in finance for instance on credit risk and credit valuation adjustment are included in the

book The functionals of multidimensional diffusions analyzed in this book are significant for many areas of application beyond finance The book is aimed at a wide readership and develops an intuitive and rigorous understanding of the mathematics underlying the derivation of explicit formulas for functionals of multidimensional diffusions Wiener Chaos: Moments, Cumulants and Diagrams Giovanni Peccati, Murad S. Taqqu, 2011-04-06 The concept of Wiener chaos generalizes to an infinite dimensional setting the properties of orthogonal polynomials associated with probability distributions on the real line It plays a crucial role in modern probability theory with applications ranging from Malliavin calculus to stochastic differential equations and from probabilistic approximations to mathematical finance This book is concerned with combinatorial structures arising from the study of chaotic random variables related to infinitely divisible random measures The combinatorial structures involved are those of partitions of finite sets over which M bius functions and related inversion formulae are defined This combinatorial standpoint which is originally due to Rota and Wallstrom provides an ideal framework for diagrams which are graphical devices used to compute moments and cumulants of random variables Several applications are described in particular recent limit theorems for chaotic random variables An Appendix presents a computer implementation in MATHEMATICA for many of the formulae **Metric Lie Groups** Enrico Le Donne, 2025-09-30 This Open Access textbook presents Carnot Carath odory spaces from the perspective of Lie groups Its main objective is to illustrate how these non smooth geometries manifest in various mathematical domains including metric geometry and geometric group theory In contrast to other sources this book utilizes the formalism of Lie groups to showcase how this theory facilitates the development of geometry and analysis on the non smooth structure of Carnot Carath odory spaces Major results are presented with rigorous mathematical proofs and references for further exploration are provided Open problems in these areas are discussed offering insights into recent developments and avenues for future research Prerequisite topics such as differential geometry measure theory and group theory are incorporated in the main flow of the chapters ensuring a comprehensive understanding Junior researchers seeking an introduction to the field of sub Riemannian geometry will find this an invaluable introductory companion The book is also suitable for those entering research subjects on the interplay between geometry analysis and group theory Selected Aspects of Fractional Brownian Motion Ivan Nourdin, 2013-01-17 Fractional Brownian motion fBm is a stochastic process which deviates significantly from Brownian motion and semimartingales and others classically used in probability theory As a centered Gaussian process it is characterized by the stationarity of its increments and a medium or long memory property which is in sharp contrast with martingales and Markov processes fBm has become a popular choice for applications where classical processes cannot model these non trivial properties for instance long memory which is also known as persistence is of fundamental importance for financial data and in internet traffic The mathematical theory of fBm is currently being developed vigorously by a number of stochastic analysts in various directions using complementary and sometimes competing tools This book is concerned with several aspects of

fBm including the stochastic integration with respect to it the study of its supremum and its appearance as limit of partial sums involving stationary sequences to name but a few The book is addressed to researchers and graduate students in probability and mathematical statistics With very few exceptions where precise references are given every stated result is proved

Mathematical Finance Emanuela Rosazza Gianin, Carlo Sgarra, 2023-04-18 The book is conceived as a guide to solve exercises in Mathematical Finance and a complement to theoretical lectures The potential audience consists of students in Applied Mathematics Engineering and Economics attending courses in Mathematical Finance The most important subjects covered by this textbook are Pricing and Hedging of different classes of financial derivatives European American Exotic options Fixed Income derivatives in the most popular modeling frameworks both in discrete and continuous time setting like the Binomial and the Black Scholes models A Chapter on static portfolio optimization one on pricing for more advanced models and one on Risk Measures complete the overview on the main issues presented in classical courses on Mathematical Finance About one hundred exercises are proposed and a large amount of them provides a detailed solution while a few are left as an exercise to the reader Every chapter includes a brief resume of the main theoretical results to apply This textbook is the result of several years of teaching experience of both the authors

Teoria della Probabilità Andrea Pascucci, 2020-08-21 Il libro fornisce un'introduzione concisa ma rigorosa alla Teoria della Probabilità Fra i possibili approcci alla materia si scelto quello più moderno basato sulla teoria della misura pur richiedendo un grado di astrazione e sofisticazione matematica maggiore esso indispensabile a fornire le basi per lo studio di argomenti più avanzati come i processi stocastici il calcolo differenziale stocastico e l'inferenza statistica Nato dall'esperienza di insegnamento del corso di Probabilità e Statistica Matematica presso la Laurea Triennale in Matematica dell'Università di Bologna il testo raccoglie materiale per un insegnamento semestrale in corsi di studio scientifici Matematica Fisica Ingegneria Statistica assumendo come prerequisito il calcolo differenziale e integrale di funzioni di più variabili I quattro capitoli del libro trattano i seguenti argomenti misure e spazi di probabilità variabili aleatorie successioni di variabili aleatorie e teoremi limite attesa e distribuzione condizionata Il testo include una raccolta di esercizi risolti

Introduction to Martingale Methods in Option Pricing Jia-An Yan, 1998

Theory of Martingales Robert Liptser, A N Shiryaev, 1989-09-30

The Time-Discrete Method of Lines for Options and Bonds Gunter H. Meyer, 2014-11-27 Few financial mathematical books have discussed mathematically acceptable boundary conditions for the degenerate diffusion equations in finance In The Time Discrete Method of Lines for Options and Bonds Gunter H Meyer examines PDE models for financial derivatives and shows where the Fichera theory requires the pricing equation at degenerate boundary points and what modifications of it lead to acceptable tangential boundary conditions at non degenerate points on computational boundaries when no financial data are available Extensive numerical simulations are carried out with the method of lines to examine the influence of the finite computational domain and of the chosen boundary conditions on option and bond prices in one and two dimensions reflecting

multiple assets stochastic volatility jump diffusion and uncertain parameters Special emphasis is given to early exercise boundaries prices and their derivatives near expiration Detailed graphs and tables are included which may serve as benchmark data for solutions found with competing numerical methods

Martingale Hardy Spaces and their Applications in Fourier Analysis Ferenc Weisz, 1994-03-28 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

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