



Mathematical Modeling and Methods of Option Pricing

Lishang Jiang

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James R. Brannan, William E. Boyce



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Korn, Elke Korn, 2001 Introduces Ito calculus concentrating on applications in financial mathematics Builds the standard diffusion type security market model then treats the pricing of options in detail introducing the method of option pricing via replication and no arbitrage Presents a method of pricing options with partial differential equations and presents examples of exotic options Describes basics of Monte Carlo methods tree methods and finite difference methods and deals with the martingale method and the stochastic control method for portfolio optimization Assumes a previous basic course in probability theory Author information is not given Annotation copyrighted by Book News Inc Portland OR Mathematical Models, Methods and Applications Abul Hasan Siddiqi, Pammy Manchanda, Rashmi Bhardwaj, 2015-12-14 The present volume contains invited talks of 11th biennial conference on Emerging Mathematical Methods Models and Algorithms for Science

and Technology The main message of the book is that mathematics has a great potential to analyse and understand the challenging problems of nanotechnology biotechnology medical science oil industry and financial technology The book highlights all the features and main theme discussed in the conference All contributing authors are eminent academicians scientists researchers and scholars in their respective fields hailing from around the world *Computational Probability and Mathematical Modeling* José Roberto Cantú-González, F-Javier Almaguer, Javier Morales-Castillo, Pavel Solin, 2019-12-24 In the present time two of the most important approaches to tackle complex systems are probability and stochastic processes theory Still from an analytic perspective modeling and solving a problem using a stochastic approach is not a trivial issue hence a combination of the logic of probabilistic reasoning with computational science is needed to obtain qualitatively good solutions in a reasonable time This eBook presents an interesting view of applications associated to fields of probability statistics and mathematic modeling all of them supported by a computational context though the approach of stochasticity and simulation used in most of them This collection contains three chapters which bring applications in fields of biology finance and physics each chapter contains work s with specific applications An editorial is also contained with a summarized version of each work and each of them are widely explained in a specific section which include a state of art to support the nature of the individual research a methodology to solve the defined problem and the results and conclusions We hope the present eBook can represent a potential source of knowledge for the academic community of implicated disciplines and an inspirational starting point of starting for scientists in the amazing world of applied mathematics and the search to solve complex problems

Exotic Option Pricing and Advanced Lévy Models Andreas Kyprianou, Wim Schoutens, Paul Wilmott, 2006-06-14 Since around the turn of the millennium there has been a general acceptance that one of the more practical improvements one may make in the light of the shortfalls of the classical Black Scholes model is to replace the underlying source of randomness a Brownian motion by a Lévy process Working with Lévy processes allows one to capture desirable distributional characteristics in the stock returns In addition recent work on Lévy processes has led to the understanding of many probabilistic and analytical properties which make the processes attractive as mathematical tools At the same time exotic derivatives are gaining increasing importance as financial instruments and are traded nowadays in large quantities in OTC markets The current volume is a compendium of chapters each of which consists of discursive review and recent research on the topic of exotic option pricing and advanced Lévy markets written by leading scientists in this field In recent years Lévy processes have leapt to the fore as a tractable mechanism for modeling asset returns Exotic option values are especially sensitive to an accurate portrayal of these dynamics This comprehensive volume provides a valuable service for financial researchers everywhere by assembling key contributions from the world s leading researchers in the field Peter Carr Head of Quantitative Finance Bloomberg LP This book provides a front row seat to the hottest new field in modern finance options pricing in turbulent markets The old models have failed as many a professional investor can sadly attest So many of the

brightest minds in mathematical finance across the globe are now in search of new more accurate models Here in one volume is a comprehensive selection of this cutting edge research Richard L Hudson former Managing Editor of The Wall Street Journal Europe and co author with Benoit B Mandelbrot of The Mis Behaviour of Markets A Fractal View of Risk Ruin and Reward Nonlinear Option Pricing Julien Guyon, Pierre Henry-Labordere, 2013-12-19 New Tools to Solve Your Option Pricing Problems For nonlinear PDEs encountered in quantitative finance advanced probabilistic methods are needed to address dimensionality issues Written by two leaders in quantitative research including Risk magazine s 2013 Quant of the Year Nonlinear Option Pricing compares various numerical methods for solving high dimensional nonlinear problems arising in option pricing Designed for practitioners it is the first authored book to discuss nonlinear Black Scholes PDEs and compare the efficiency of many different methods Real World Solutions for Quantitative Analysts The book helps quants develop both their analytical and numerical expertise It focuses on general mathematical tools rather than specific financial questions so that readers can easily use the tools to solve their own nonlinear problems The authors build intuition through numerous real world examples of numerical implementation Although the focus is on ideas and numerical examples the authors introduce relevant mathematical notions and important results and proofs The book also covers several original approaches including regression methods and dual methods for pricing chooser options Monte Carlo approaches for pricing in the uncertain volatility model and the uncertain lapse and mortality model the Markovian projection method and the particle method for calibrating local stochastic volatility models to market prices of vanilla options with without stochastic interest rates the a b technique for building local correlation models that calibrate to market prices of vanilla options on a basket and a new stochastic representation of nonlinear PDE solutions based on marked branching diffusions *Pricing Derivatives Under Lévy Models* Andrey Itkin, 2017-02-27 This monograph presents a novel numerical approach to solving partial integro differential equations arising in asset pricing models with jumps which greatly exceeds the efficiency of existing approaches The method based on pseudo differential operators and several original contributions to the theory of finite difference schemes is new as applied to the Lévy processes in finance and is herein presented for the first time in a single volume The results within developed in a series of research papers are collected and arranged together with the necessary background material from Lévy processes the modern theory of finite difference schemes the theory of M matrices and EM matrices etc thus forming a self contained work that gives the reader a smooth introduction to the subject For readers with no knowledge of finance a short explanation of the main financial terms and notions used in the book is given in the glossary The latter part of the book demonstrates the efficacy of the method by solving some typical problems encountered in computational finance including structural default models with jumps and local stochastic volatility models with stochastic interest rates and jumps The author also adds extra complexity to the traditional statements of these problems by taking into account jumps in each stochastic component while all jumps are fully correlated and shows how this

setting can be efficiently addressed within the framework of the new method Written for non mathematicians this book will appeal to financial engineers and analysts econophysicists and researchers in applied numerical analysis It can also be used as an advance course on modern finite difference methods or computational finance

Advances in Mathematics of Finance Łukasz Stettner,2008 This volume contains 15 papers contributed by the participands of the 2nd General AMaMeF conference and Banach Center converence Advances in mathematics of finance organized in B dlewo Poland from 30th April till 5th May 2007 AMaMeF Advances Mathematical Methods of Finance is a scientific programme of the European Science Foundation for 2005 2010 Preface p 5

Tools for Computational Finance Rüdiger U. Seydel,2017-08-17 Computational and numerical methods are used in a number of ways across the field of finance It is the aim of this book to explain how such methods work in financial engineering By concentrating on the field of option pricing a core task of financial engineering and risk analysis this book explores a wide range of computational tools in a coherent and focused manner and will be of use to anyone working in computational finance Starting with an introductory chapter that presents the financial and stochastic background the book goes on to detail computational methods using both stochastic and deterministic approaches Now in its sixth edition Tools for Computational Finance has been significantly revised and contains Several new parts such as a section on extended applications of tree methods including multidimensional trees trinomial trees and the handling of dividends Additional material in the field of generating normal variates with acceptance rejection methods and on Monte Carlo methods 115 exercises and more than 100 figures many in color Written from the perspective of an applied mathematician all methods are introduced for immediate and straightforward application A learning by calculating approach is adopted throughout this book enabling readers to explore several areas of the financial world Interdisciplinary in nature this book will appeal to advanced undergraduate and graduate students in mathematics engineering and other scientific disciplines as well as professionals in financial engineering

Mathematical Models and Numerical Algorithms for Option Pricing and Optimal Trading Na Song,2017-01-26 This dissertation Mathematical Models and Numerical Algorithms for Option Pricing and Optimal Trading by Na Song was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3 0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract Research conducted in mathematical finance focuses on the quantitative modeling of financial markets It allows one to solve financial problems by using mathematical methods and provides understanding and prediction of the complicated financial behaviors In this thesis efforts are devoted to derive and extend stochastic optimization models in financial economics and establish practical algorithms for representing and solving problems in mathematical finance An option gives the holder the right but not the obligation to buy or sell an underlying asset at a specified strike price on or before a specified date In this thesis a valuation model for a perpetual convertible bond

is developed when the price dynamics of the underlying share are governed by Markovian regime switching models. By making use of the relationship between the convertible bond and an American option, the valuation of a perpetual convertible bond can be transformed into an optimal stopping problem. A novel approach is also proposed to discuss an optimal inventory level of a retail product from a real option perspective in this thesis. The expected present value of the net profit from selling the product, which is the objective function of the optimal inventory problem, can be given by the actuarial value of a real option. Hence, option pricing techniques are adopted to solve the optimal inventory problem in this thesis. The goal of risk management is to eliminate or minimize the level of risk associated with a business operation. In the risk measurement literature, there is a relatively little amount of work focusing on the risk measurement and management of interest rate instruments. This thesis concerns about building a risk measurement framework based on some modern risk measures such as Value at Risk (VaR) and Expected Shortfall (ES) for describing and quantifying the risk of interest rate sensitive instruments. From the lessons of the recent financial turmoils, it is understood that maximizing profits is not the only objective that needs to be taken into account. The consideration for risk control is of primal importance. Hence, an optimal submission problem of bid and ask quotes in the presence of risk constraints is studied in this thesis. The optimal submission problem of bid and ask quotes is formulated as a stochastic optimal control problem. Portfolio management is a professional management of various securities and assets in order to match investment objectives and balance risk against performance. Different choices of time series models for asset price may lead to different portfolio management strategies. In this thesis, a discrete time dynamic programming approach, which is flexible enough to deal with the optimal asset allocation problem under a general stochastic dynamical system, is explored. It is also interesting to analyze the implications of the heteroscedastic effect described by a continuous time stochastic volatility model for evaluating risk of a cash management problem. In this thesis, a continuous time dynamic programming approach is employed to investigate the cash management problem under stochastic volatility model and constant volatility model respectively.

DOI 10.5353/th_b5066216 Subjects Options Finance Prices Mathematical models
Options Finance Mathematical models **SIAM Journal on Scientific Computing**, 2009 **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 **Differential Equations** James R. Brannan, William E. Boyce, 2015-02-13 Brannan Boyce's Differential Equations An Introduction to Modern Methods and Applications 3rd Edition is consistent with the way engineers and scientists use mathematics in their daily work The text emphasizes a systems approach to the subject and integrates the use of modern computing technology in the context of contemporary applications from engineering and science The focus on fundamental skills careful application of technology and practice in modeling complex systems prepares students for the realities of the new millennium providing the building blocks to be successful problem solvers in today's workplace Section exercises throughout the text provide hands on experience in modeling analysis and computer experimentation Projects at the end of each chapter provide additional opportunities for students to explore the role played by differential equations in the sciences and engineering *Option Pricing* Paul Wilmott, Jeffrey N. Dwyne, Sam Howison, 1998 **Memoirs of the Scientific Sections of the Academy of the Socialist Republic of Romania**, 2007 *Mathematics Catalog 2005* Neil Thomson, 2004-10

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