



Mathematical Modeling and Methods of Option Pricing

Lishang Jiang

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Yves Achdou, Olivier Pironneau



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Mathematical Modeling and Methods of Option Pricing Lishang Jiang, Canguo Li, 2005 From the perspective of partial differential equations PDE this book introduces the Black Scholes Merton's option pricing theory A unified approach is used to model various types of option pricing as PDE problems to derive pricing formulas as their solutions and to design efficient algorithms from the numerical calculation of PDEs

Analysis, Geometry, and Modeling in Finance Pierre Henry-Labordere, 2008-09-22 Analysis Geometry and Modeling in Finance Advanced Methods in Option Pricing is the first book that applies advanced analytical and geometrical methods used in physics and mathematics to the financial field It even obtains new results when only approximate and partial solutions were previously available Through the problem of option pricing th

Computational Methods for Option Pricing Yves Achdou, Olivier Pironneau, 2005-07-18 This book allows you to understand fully the modern tools of numerical analysis in finance

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

Mathematical Modelling and Numerical Methods in Finance Alain Bensoussan, Qiang Zhang, 2009-06-16 Mathematical finance is a prolific scientific domain in which there exists a particular characteristic of developing both advanced theories and practical techniques simultaneously Mathematical Modelling and Numerical Methods in Finance addresses the three most important aspects in the field mathematical models computational methods and applications and provides a solid overview of major new ideas and results in the three domains Coverage of all aspects of quantitative finance including models computational methods and applications Provides an overview of new ideas and results Contributors are leaders of the field

Neutral and Indifference Portfolio Pricing, Hedging and Investing Srdjan Stojanovic, 2011-08-30 This book is written for quantitative finance professionals students educators and mathematically inclined individual investors It is about some of the latest developments in pricing hedging and investing in incomplete markets With regard to pricing two frameworks are fully elaborated neutral and indifference pricing With regard to hedging the most conservative and relaxed hedging formulas are derived With regard to investing the neutral pricing methodology is also considered as a tool for connecting market asset prices with optimal positions in such assets Srdjan D Stojanovic is

Professor in the Department of Mathematical Sciences at University of Cincinnati USA and Professor in the Center for Financial Engineering at Suzhou University China

Option Pricing and Portfolio Optimization Ralf 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

Encyclopedia of Financial Models, Volume II Frank J. Fabozzi, 2012-09-12 Volume 2 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently available Incorporating timely research and in depth analysis Volume 2 of the Encyclopedia of Financial Models covers both established and cutting edge models and discusses their real world applications Edited by Frank Fabozzi this volume includes contributions from global financial experts as well as academics with extensive consulting experience in this field Organized alphabetically by category this reliable resource consists of forty four informative entries and provides readers with a balanced understanding of today's dynamic world of financial modeling Volume 2 explores Equity Models and Valuation Factor Models for Portfolio Construction Financial Econometrics Financial Modeling Principles Financial Statements Analysis Finite Mathematics for Financial Modeling and Model Risk and Selection Emphasizes both technical and implementation issues providing researchers educators students and practitioners with the necessary background to deal with issues related to financial modeling The 3 Volume Set contains coverage of the fundamentals and advances in financial modeling and provides the mathematical and statistical techniques needed to develop and test financial models Financial models have become increasingly commonplace as well as complex They are essential in a wide range of financial endeavors and the Encyclopedia of Financial Models will help put them in perspective

Mathematical Analysis and its Applications P. N. Agrawal, R. N. Mohapatra, Uday Singh, H. M. Srivastava, 2015-08-22 This book discusses recent developments in and the latest research on mathematics statistics and their applications All contributing authors are eminent academics scientists researchers and scholars in their respective fields hailing from around the world The book presents roughly 60 unpublished high quality and peer reviewed research papers that cover a broad range of areas including approximation theory harmonic analysis operator theory fixed point theory functional differential equations dynamical and control systems complex analysis special functions function spaces summability theory Fourier and wavelet analysis and numerical analysis all of which are

topics of great interest to the research community while further papers highlight important applications of mathematical analysis in science engineering and related areas This conference aims at bringing together experts and young researchers in mathematics from all over the world to discuss the latest advances in mathematical analysis and at promoting the exchange of ideas in various applications of mathematics in engineering physics and biology This conference encourages international collaboration and provides young researchers an opportunity to learn about the current state of the research in their respective fields

Computational Sciences - Modelling, Computing and Soft Computing Ashish Awasthi, Sunil Jacob John, Satyananda Panda, 2021-07-27 This book constitutes revised and selected papers of the First International Conference on Computational Sciences Modelling Computing and Soft Computing held in Kozhikode Kerala India in September 2020 The 15 full papers and 6 short papers presented were thoroughly reviewed and selected from the 150 submissions They are organized in the topical sections on computing soft computing general computing modelling

Mathematical Models of Financial Derivatives Yue-Kuen Kwok, 2008-07-10 Objectives and Audience In the past three decades we have witnessed the phenomenal growth in the trading of financial derivatives and structured products in the financial markets around the globe and the surge in research on derivative pricing theory Leading financial institutions are hiring graduates with a science background who can use advanced analytical and numerical techniques to price financial derivatives and manage portfolio risks a phenomenon coined as Rocket Science on Wall Street There are now more than a hundred Master level degree programs in Financial Engineering Quantitative Finance Computational Finance on different continents This book is written as an introductory textbook on derivative pricing theory for students enrolled in these degree programs Another audience of the book may include practitioners in quantitative teams in financial institutions who would like to acquire the knowledge of option pricing techniques and explore the new development in pricing models of exotic structured derivatives The level of mathematics in this book is tailored to readers with preparation at the advanced undergraduate level of science and engineering majors in particular basic proficiencies in probability and statistics differential equations numerical methods and mathematical analysis Advance knowledge in stochastic processes that are relevant to the martingale pricing theory like stochastic differential calculus and theory of martingale are introduced in this book The cornerstones of derivative pricing theory are the Black Scholes Merton pricing model and the martingale pricing theory of financial derivatives

Handbook of Quantitative Finance and Risk Management Cheng-Few Lee, John Lee, 2010-06-14 Quantitative finance is a combination of economics accounting statistics econometrics mathematics stochastic process and computer science and technology Increasingly the tools of financial analysis are being applied to assess monitor and mitigate risk especially in the context of globalization market volatility and economic crisis This two volume handbook comprised of over 100 chapters is the most comprehensive resource in the field to date integrating the most current theory methodology policy and practical applications Showcasing contributions from an international array of experts the Handbook of

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Novel Methods in Computational Finance Matthias Ehrhardt, Michael Günther, E. Jan W. ter Maten, 2017-09-19 This book discusses the state of the art and open problems in computational finance It presents a collection of research outcomes and reviews of the work from the STRIKE project an FP7 Marie Curie Initial Training Network ITN project in which academic partners trained early stage researchers in close cooperation with a broader range of associated partners including from the private sector The aim of the project was to arrive at a deeper understanding of complex mostly nonlinear financial models and to develop effective and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products This was accomplished by means of financial modelling mathematical analysis and numerical simulations optimal control techniques and validation of models In recent years the computational complexity of mathematical models employed in financial mathematics has witnessed tremendous growth Advanced numerical techniques are now essential to the majority of present day applications in the financial industry Special attention is devoted to a uniform methodology for both testing the latest achievements and simultaneously educating young PhD students Most of the mathematical codes are linked into a novel computational finance toolbox which is provided in MATLAB and PYTHON with an open access license The book offers a valuable guide for researchers in computational finance and related areas e g energy markets with an interest in industrial mathematics

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

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Yves Achdou,Olivier Pironneau,2005-01-01 The authors review some important aspects of finance modeling involving partial differential equations and focus on numerical algorithms for the fast and accurate pricing of financial derivatives and for the calibration of parameters This book explores the best numerical algorithms and discusses them in depth from their mathematical analysis up to their implementation in C with efficient numerical libraries **Mathematical Modeling and Simulation**

Kai Velten,2009-06-01 This concise and clear introduction to the topic requires only basic knowledge of calculus and linear algebra all other concepts and ideas are developed in the course of the book Lucidly written so as to appeal to undergraduates and practitioners alike it enables readers to set up simple mathematical models on their own and to interpret their results and those of others critically To achieve this many examples have been chosen from various fields such as biology ecology economics medicine agricultural chemical electrical mechanical and process engineering which are subsequently discussed in detail Based on the author s modeling and simulation experience in science and engineering and as a consultant the book answers such basic questions as What is a mathematical model What types of models do exist Which model is appropriate for a particular problem What are simulation parameter estimation and validation The book relies exclusively upon open source software which is available to everybody free of charge The entire book software including 3D CFD and structural mechanics simulation software can be used based on a free CAELinux Live DVD that is available in the Internet works on most machines and operating systems *Handbook of Computational Economics* Karl

Schmedders,Kenneth L. Judd,2013-12-31 Handbook of Computational Economics summarizes recent advances in economic thought revealing some of the potential offered by modern computational methods With computational power increasing in hardware and algorithms many economists are closing the gap between economic practice and the frontiers of computational mathematics In their efforts to accelerate the incorporation of computational power into mainstream research contributors to this volume update the improvements in algorithms that have sharpened econometric tools solution methods for dynamic optimization and equilibrium models and applications to public finance macroeconomics and auctions They also cover the switch to massive parallelism in the creation of more powerful computers with advances in the development of high power and high throughput computing Much more can be done to expand the value of computational modeling in economics In conjunction with volume one 1996 and volume two 2006 this volume offers a remarkable picture of the recent development of economics as a science as well as an exciting preview of its future potential Samples different styles and approaches reflecting the breadth of computational economics as practiced today Focuses on problems with few well developed solutions

in the literature of other disciplines Emphasizes the potential for increasing the value of computational modeling in economics

Numerical Mathematics and Advanced Applications Karl Kunisch, Günther Of, Olaf Steinbach, 2008-09-19

The European Conference on Numerical Mathematics and Advanced Applications ENUMATH is a series of conferences held every two years to provide a forum for discussion on recent aspects of numerical mathematics and their applications The first ENUMATH conference was held in Paris 1995 and the series continued by the one in Heidelberg 1997 Jyväskylä 1999 Ischia 2001 Prague 2003 and Santiago de Compostela 2005 This volume contains a selection of invited plenary lectures papers presented in minisymposia and contributed papers of ENUMATH 2007 held in Graz Austria September 10-14 2007 We are happy that so many people have shown their interest in this conference In addition to the ten invited presentations and the public lecture we had more than 240 talks in nine minisymposia and forty four sessions of contributed talks and about 316 participants from all over the world specially from Europe A total of 98 contributions appear in these proceedings Topics include theoretical aspects of new numerical techniques and algorithms as well as to applications in engineering and science The book will be useful for a wide range of readers giving them an excellent overview of the most modern methods techniques algorithms and results in numerical mathematics scientific computing and their applications We would like to thank all the participants for the attendance and for their valuable contributions and discussions during the conference

Special thanks go to the minisymposium organizers who made a large contribution to the conference the chair persons and all speakers

The Numerical Solution of the American Option Pricing Problem Carl Chiarella, Boda Kang, Gunter H. Meyer, 2014-10-14

The early exercise opportunity of an American option makes it challenging to price and an array of approaches have been proposed in the vast literature on this topic In The Numerical Solution of the American Option Pricing Problem Carl Chiarella Boda Kang and Gunter Meyer focus on two numerical approaches that have proved useful for finding all prices hedge ratios and early exercise boundaries of an American option One is a finite difference approach which is based on the numerical solution of the partial differential equations with the free boundary problem arising in American option pricing including the method of lines the component wise splitting and the finite difference with PSOR The other approach is the integral transform approach which includes Fourier or Fourier Cosine transforms Written in a concise and systematic manner Chiarella Kang and Meyer explain and demonstrate the advantages and limitations of each of them based on their and their co-workers experiences with these approaches over the years

Contents Introduction The Merton and Heston Model for a Call American Call Options under Jump Diffusion Processes American Option Prices under Stochastic Volatility and Jump Diffusion Dynamics OCo The Transform Approach Representation and Numerical Approximation of American Option Prices under Heston Fourier Cosine Expansion Approach A Numerical Approach to Pricing American Call Options under SVJD Conclusion Bibliography Index About the Authors Readership Post graduates Researchers in finance and applied mathematics with interest in numerical methods for American option pricing mathematicians physicists doing applied

research in option pricing Key Features Complete discussion of different numerical methods for American options Able to handle stochastic volatility and or jump diffusion dynamics Able to produce hedge ratios efficiently and accurately

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

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