

APPLICATIONS
OF MATHEMATICS

STOCHASTIC
MODELLING
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PROBABILITY

53

Paul Glasserman

Monte Carlo Methods in Financial Engineering

 Springer

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Hussin A.Rothana



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Monte Carlo Methods in Financial Engineering Paul Glasserman, 2013-03-09 Monte Carlo simulation has become an essential tool in the pricing of derivative securities and in risk management. These applications have in turn stimulated research into new Monte Carlo methods and renewed interest in some older techniques. This book develops the use of Monte Carlo methods in finance and it also uses simulation as a vehicle for presenting models and ideas from financial engineering. It divides roughly into three parts. The first part develops the fundamentals of Monte Carlo methods: the foundations of derivatives pricing and the implementation of several of the most important models used in financial engineering. The next part describes techniques for improving simulation accuracy and efficiency. The final third of the book addresses special topics: estimating price sensitivities, valuing American options and measuring market risk and credit risk in financial portfolios. The most important prerequisite is familiarity with the mathematical tools used to specify and analyze continuous time models in finance, in particular the key ideas of stochastic calculus. Prior exposure to the basic principles of option pricing is useful but not essential. The book is aimed at graduate students in financial engineering, researchers in Monte Carlo simulation and practitioners implementing models in industry. Mathematical Reviews 2004: this book is very comprehensive, up to date and useful tool for those who are interested in implementing Monte Carlo methods in a financial context.

Monte Carlo and Quasi-Monte Carlo Methods 2012 Josef Dick, Frances Y. Kuo, Gareth W. Peters, Ian H. Sloan, 2013-12-05 This book represents the refereed proceedings of the Tenth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of New South Wales, Australia, in February 2012. These biennial conferences are major events for Monte Carlo and the premiere event for quasi Monte Carlo research. The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods. The reader will be provided with information on latest developments in these very active areas. The book is an excellent reference for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance, statistics and computer graphics.

Monte Carlo and Quasi-Monte Carlo Methods Ronald Cools, Dirk Nuyens, 2016-06-13 This book presents the refereed proceedings of the Eleventh International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of Leuven, Belgium, in April 2014. These biennial conferences are major events for Monte Carlo and quasi Monte Carlo researchers. The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods. Offering information on the latest developments in these very active areas, this book is an excellent reference resource for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance, statistics and computer graphics.

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Plaskota, Henryk Woźniakowski, 2012-08-23 This book represents the refereed proceedings of the Ninth International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing that was held at the University of Warsaw Poland in August 2010 These biennial conferences are major events for Monte Carlo and the premiere event for quasi Monte Carlo research The proceedings include articles based on invited lectures as well as carefully selected contributed papers on all theoretical aspects and applications of Monte Carlo and quasi Monte Carlo methods The reader will be provided with information on latest developments in these very active areas The book is an excellent reference for theoreticians and practitioners interested in solving high dimensional computational problems arising in particular in finance and statistics *Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications* Management Association, Information Resources, 2012-04-30 This reference presents a vital compendium of research detailing the latest case studies architectures frameworks methodologies and research on Grid and Cloud Computing Methodologies and Applications of Computational Statistics for Machine Intelligence Samanta, Debabrata, Rao Althar, Raghavendra, Pramanik, Sabyasachi, Dutta, Soumi, 2021-06-25 With the field of computational statistics growing rapidly there is a need for capturing the advances and assessing their impact Advances in simulation and graphical analysis also add to the pace of the statistical analytics field Computational statistics play a key role in financial applications particularly risk management and derivative pricing biological applications including bioinformatics and computational biology and computer network security applications that touch the lives of people With high impacting areas such as these it becomes important to dig deeper into the subject and explore the key areas and their progress in the recent past Methodologies and Applications of Computational Statistics for Machine Intelligence serves as a guide to the applications of new advances in computational statistics This text holds an accumulation of the thoughts of multiple experts together keeping the focus on core computational statistics that apply to all domains Covering topics including artificial intelligence deep learning and trend analysis this book is an ideal resource for statisticians computer scientists mathematicians lecturers tutors researchers academic and corporate libraries practitioners professionals students and academicians **Advanced Simulation-Based Methods for Optimal Stopping and Control** Denis Belomestny, John Schoenmakers, 2018-01-31 This is an advanced guide to optimal stopping and control focusing on advanced Monte Carlo simulation and its application to finance Written for quantitative finance practitioners and researchers in academia the book looks at the classical simulation based algorithms before introducing some of the new cutting edge approaches under development **Monte Carlo and Quasi-Monte Carlo Methods 2008** Pierre L'Ecuyer, Art B. Owen, 2010-01-14 This book represents the refereed proceedings of the Eighth International Conference on Monte Carlo MC and Quasi Monte Carlo QMC Methods in Scientific Computing held in Montreal Canada in July 2008 It covers the latest theoretical developments as well as important applications of these methods in different areas It contains two tutorials eight invited articles and 32 carefully selected articles based on the 135 contributed presentations made at the

conference This conference is a major event in Monte Carlo methods and is the premiere event for quasi Monte Carlo and its combination with Monte Carlo This series of proceedings volumes is the primary outlet for quasi Monte Carlo research A Theoretical Introduction to Numerical Analysis Victor S. Ryaben'kii, Semyon V. Tsynkov, 2006-11-02 A Theoretical Introduction to Numerical Analysis presents the general methodology and principles of numerical analysis illustrating these concepts using numerical methods from real analysis linear algebra and differential equations The book focuses on how to efficiently represent mathematical models for computer based study An access Numerical Solution of Stochastic Differential Equations with Jumps in Finance Eckhard Platen, Nicola Bruti-Liberati, 2010-07-23 In financial and actuarial modeling and other areas of application stochastic differential equations with jumps have been employed to describe the dynamics of various state variables The numerical solution of such equations is more complex than that of those only driven by Wiener processes described in Kloeden Platen Numerical Solution of Stochastic Differential Equations 1992 The present monograph builds on the above mentioned work and provides an introduction to stochastic differential equations with jumps in both theory and application emphasizing the numerical methods needed to solve such equations It presents many new results on higher order methods for scenario and Monte Carlo simulation including implicit predictor corrector extrapolation Markov chain and variance reduction methods stressing the importance of their numerical stability Furthermore it includes chapters on exact simulation estimation and filtering Besides serving as a basic text on quantitative methods it offers ready access to a large number of potential research problems in an area that is widely applicable and rapidly expanding Finance is chosen as the area of application because much of the recent research on stochastic numerical methods has been driven by challenges in quantitative finance Moreover the volume introduces readers to the modern benchmark approach that provides a general framework for modeling in finance and insurance beyond the standard risk neutral approach It requires undergraduate background in mathematical or quantitative methods is accessible to a broad readership including those who are only seeking numerical recipes and includes exercises that help the reader develop a deeper understanding of the underlying mathematics **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 **FX Options and Structured Products** Uwe Wystup, 2017-06-30 Advanced Guidance to Excelling in the FX Market Once you have a textbook understanding of money market and foreign exchange products turn to FX Options and Structured Products Second Edition for the beyond vanilla options strategies and traded deals proven superior in today s post credit crisis trading environment

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The Mathematics of Derivatives Securities with Applications in MATLAB Mario Cerrato, 2012-02-24 Quantitative Finance is expanding rapidly One of the aspects of the recent financial crisis is that given the complexity of financial products the demand for people with high numeracy skills is likely to grow and this means more recognition will be given to Quantitative Finance in existing and new course structures worldwide Evidence has suggested that many holders of complex financial securities before the financial crisis did not have in house experts or rely on a third party in order to assess the risk exposure of their investments Therefore this experience shows the need for better understanding of risk associate with complex financial securities in the future The Mathematics of Derivative Securities with Applications in MATLAB provides readers with an introduction to probability theory stochastic calculus and stochastic processes followed by discussion on the application of that knowledge to solve complex financial problems such as pricing and hedging exotic options pricing American derivatives pricing and hedging under stochastic volatility and an introduction to interest rates modelling The book begins with an overview of MATLAB and the various components that will be used alongside it throughout the textbook Following this the first part of the book is an in depth introduction to Probability theory Stochastic Processes and Ito Calculus and Ito Integral This is essential to fully understand some of the mathematical concepts used in the following part of the book The second part focuses on financial engineering and guides the reader through the fundamental theorem of asset pricing using the Black and Scholes Economy and Formula Options Pricing through European and American style options summaries of Exotic Options Stochastic Volatility Models and Interest rate Modelling Topics covered in this part are explained using MATLAB codes showing how the theoretical models are used practically Authored from an academic s perspective the book discusses complex analytical issues and intricate financial instruments in a way that it is accessible to postgraduate students with or without a previous background in probability theory and finance It is written to be the ideal primary reference book or a perfect companion to other related works The book uses clear and detailed mathematical explanation accompanied by examples involving real case scenarios throughout and provides MATLAB codes for a variety of topics

Examining Robustness and Vulnerability of

Networked Systems S. Butenko, E.L. Pasilião, V. Shylo, 2014-06-19 Modern critical infrastructure is characterized by complex heterogeneous and dynamically evolving networks But these can be vulnerable to component failure and this is a problem which must be addressed by realistic mathematical models This book presents papers from the NATO Advanced Research Workshop ARW Examining Robustness and Vulnerability of Critical Infrastructure Networks held in Kiev Ukraine in June 2013 Contributions were from workshop participants as well as invited experts in the field and cover topics including mathematical models probability based risk measures algorithms for the design and detection of robust structures identification of critical network components and case studies This book will be of interest to researchers practitioners and graduate students in the fields of mathematics computer science and engineering

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

Markov Chains and Dependability Theory Gerardo Rubino, Bruno Sericola, 2014-06-12 Dependability metrics are omnipresent in every engineering field from simple ones through to more complex measures combining performance and dependability aspects of systems This book presents the mathematical basis of the analysis of these metrics in the most used framework Markov models describing both basic results and specialised techniques The authors first present both discrete and continuous time Markov chains before focusing on dependability measures which necessitate the study of Markov chains on a subset of states representing different

user satisfaction levels for the modelled system Topics covered include Markovian state lumping analysis of sojourns on subset of states of Markov chains analysis of most dependability metrics fundamentals of performability analysis and bounding and simulation techniques designed to evaluate dependability measures The book is of interest to graduate students and researchers in all areas of engineering where the concepts of lifetime repair duration availability reliability and risk are important

Computational Finance Argimiro Arratia, 2014-05-08 The book covers a wide range of topics yet essential in Computational Finance CF understood as a mix of Finance Computational Statistics and Mathematics of Finance In that regard it is unique in its kind for it touches upon the basic principles of all three main components of CF with hands on examples for programming models in R Thus the first chapter gives an introduction to the Principles of Corporate Finance the markets of stock and options valuation and economic theory framed within Computation and Information Theory e g the famous Efficient Market Hypothesis is stated in terms of computational complexity a new perspective Chapters 2 and 3 give the necessary tools of Statistics for analyzing financial time series it also goes in depth into the concepts of correlation causality and clustering Chapters 4 and 5 review the most important discrete and continuous models for financial time series Each model is provided with an example program in R Chapter 6 covers the essentials of Technical Analysis TA and Fundamental Analysis This chapter is suitable for people outside academics and into the world of financial investments as a primer in the methods of charting and analysis of value for stocks as it is done in the financial industry Moreover a mathematical foundation to the seemingly ad hoc methods of TA is given and this is new in a presentation of TA Chapter 7 reviews the most important heuristics for optimization simulated annealing genetic programming and ant colonies swarm intelligence which is material to feed the computer savvy readers Chapter 8 gives the basic principles of portfolio management through the mean variance model and optimization under different constraints which is a topic of current research in computation due to its complexity One important aspect of this chapter is that it teaches how to use the powerful tools for portfolio analysis from the RMetrics R package Chapter 9 is a natural continuation of chapter 8 into the new area of research of online portfolio selection The basic model of the universal portfolio of Cover and approximate methods to compute are also described

Fundamentals and Advanced Techniques in Derivatives Hedging Bruno Bouchard, Jean-François Chassagneux, 2016-06-23 This book covers the theory of derivatives pricing and hedging as well as techniques used in mathematical finance The authors use a top down approach starting with fundamentals before moving to applications and present theoretical developments alongside various exercises providing many examples of practical interest A large spectrum of concepts and mathematical tools that are usually found in separate monographs are presented here In addition to the no arbitrage theory in full generality this book also explores models and practical hedging and pricing issues Fundamentals and Advanced Techniques in Derivatives Hedging further introduces advanced methods in probability and analysis including Malliavin calculus and the theory of viscosity solutions as well as the recent theory of stochastic targets

and its use in risk management making it the first textbook covering this topic Graduate students in applied mathematics with an understanding of probability theory and stochastic calculus will find this book useful to gain a deeper understanding of fundamental concepts and methods in mathematical finance

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

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

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