Desmond J. Higham

An Introduction to
Financial Option
Valuation

Mathematics,
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An Introduction To Financial Option Valuation Mathematics Stochastics And Computation

Gregory Ruetsch,Massimiliano Fatica

An Introduction To Financial Option Valuation Mathematics Stochastics And Computation:

   An Introduction to Financial Option Valuation Desmond J. Higham,2004-04-15 This is a lively textbook providing a solid introduction to financial option valuation for undergraduate students armed with a working knowledge of a first year calculus Written in a series of short chapters its self contained treatment gives equal weight to applied mathematics stochastics and computational algorithms No prior background in probability statistics or numerical analysis is required Detailed derivations of both the basic asset price model and the Black Scholes equation are provided along with a presentation of appropriate computational techniques including binomial finite differences and in particular variance reduction techniques for the Monte Carlo method Each chapter comes complete with accompanying stand alone MATLAB code listing to illustrate a key idea Furthermore the author has made heavy use of figures and examples and has included computations based on real stock market data   **An Introduction to Financial Option Valuation** Desmond J. Higham,2004-04-15 A textbook providing an introduction to financial option valuation for undergraduates Solutions available from solutions cambridge org   *Applied Stochastic Processes and Control for Jump-Diffusions* Floyd B. Hanson,2007-01-01 This self contained practical entry level text integrates the basic principles of applied mathematics applied probability and computational science for a clear presentation of stochastic processes and control for jump diffusions in continuous time The author covers the important problem of controlling these systems and through the use of a jump calculus construction discusses the strong role of discontinuous and nonsmooth properties versus random properties in stochastic systems   *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 **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 *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 **An Introduction to Financial Option Valuation** Desmond J. Higham,2004 **A Concise Introduction to Financial Derivatives** Eben Maré,2024-11-13 A Concise Introduction to Financial Derivatives seeks to present financial derivatives in a manner that requires minimal mathematical background Readers will obtain in a quick and engaging way a working knowledge of the field and a collection of practical working insights The book is ideal for aspiring young practitioners advanced undergraduates and masters level students who require a concise and practice led introduction to financial derivatives Features Practical insights and modelling skills Accessible to practitioners and students without a significant mathematical background Eben Mar holds responsibility for absolute return portfolio management and has been working in the financial markets for the last 33 years He has also held senior roles in risk management treasury derivatives trading and asset management He has a PhD in Applied Mathematics and is an associate professor in Mathematics and Applied Mathematics at the University of Pretoria in South Africa He has wide research interests in financial derivatives asset management and financial markets Numerical Approximation of Ordinary Differential Problems Raffaele

D'Ambrosio,2023-09-26 This book is focused on the numerical discretization of ordinary differential equations ODEs under several perspectives The attention is first conveyed to providing accurate numerical solutions of deterministic problems Then the presentation moves to a more modern vision of numerical approximation oriented to reproducing qualitative properties of the continuous problem along the discretized dynamics over long times The book finally performs some steps in the direction of stochastic differential equations SDEs with the intention of offering useful tools to generalize the techniques introduced for the numerical approximation of ODEs to the stochastic case as well as of presenting numerical issues natively introduced for SDEs The book is the result of an intense teaching experience as well as of the research carried out in the last decade by the author It is both intended for students and instructors for the students this book is comprehensive and rather self contained for the instructors there is material for one or more monographic courses on ODEs and related topics In this respect the book can be followed in its designed path and includes motivational aspects historical background examples and a software programs implemented in Matlab that can be useful for the laboratory part of a course on numerical ODEs SDEs The book also contains the portraits of several pioneers in the numerical discretization of differential problems useful to provide a framework to understand their contributes in the presented fields Last but not least rigor joins readability in the book **Measure, Probability, and Mathematical Finance** Guojun Gan,Chaoqun Ma,Hong Xie,2014-05-05 An introduction to the mathematical theory and financial models developed and used on Wall Street Providing both a theoretical and practical approach to the underlying mathematical theory behind financial models Measure Probability and Mathematical Finance A Problem Oriented Approach presents important concepts and results in measure theory probability theory stochastic processes and stochastic calculus Measure theory is indispensable to the rigorous development of probability theory and is also necessary to properly address martingale measures the change of numeraire theory and LIBOR market models In addition probability theory is presented to facilitate the development of stochastic processes including martingales and Brownian motions while stochastic processes and stochastic calculus are discussed to model asset prices and develop derivative pricing models The authors promote a problem solving approach when applying mathematics in real world situations and readers are encouraged to address theorems and problems with mathematical rigor In addition Measure Probability and Mathematical Finance features A comprehensive list of concepts and theorems from measure theory probability theory stochastic processes and stochastic calculus Over 500 problems with hints and select solutions to reinforce basic concepts and important theorems Classic derivative pricing models in mathematical finance that have been developed and published since the seminal work of Black and Scholes Measure Probability and Mathematical Finance A Problem Oriented Approach is an ideal textbook for introductory quantitative courses in business economics and mathematical finance at the upper undergraduate and graduate levels The book is also a useful reference for readers who need to build their mathematical skills in order to better understand the mathematical theory of derivative pricing models A Little Book on

Probability and Finance Cho, Seung Mo,2017-02-27 Modern finance theory is vast and deep with various academic bases such as microeconomics econometrics probability theory stochastic calculus psychology sociology political economy etc depending on the specific research theme Among those bases this book is adopting probability theory and stochastic calculus to present some of the main contents of finance in a very concise manner As a matter of fact the objective of this book is to show as concisely as possible how probability and stochastic calculus is closely related to modern mathematical finance So the organization of the book is to present theories of probability first and then their related financial theories later within each of the chapters in the theorem proof style From my past experience students with a quantitative background prefer mathematical symbols to normal English sentences especially in case they are not native speakers of English So I have tried to minimize the use of English sentences This book is intended for upper level undergraduate courses and introductory graduate courses in mathematical finance for a single semester This book can also be used for self studying students with proper prerequisite knowledge The only prerequisite for this book is one year courses of calculus *Money and Mathematics* Ralf Korn,Bernd Luderer,2021-10-26 This book follows a conversational approach in five dozen stories that provide an insight into the colorful world of financial mathematics and financial markets in a relaxed accessible and entertaining form The authors present various topics such as returns real interest rates present values arbitrage replication options swaps the Black Scholes formula and many more The readers will learn how to discover analyze and deal with the many financial mathematical decisions the daily routine constantly demands The book covers a wide field in terms of scope and thematic diversity Numerous stories are inspired by the fields of deterministic financial mathematics option valuation portfolio optimization and actuarial mathematics The book also contains a collection of basic concepts and formulas of financial mathematics and of probability theory Thus also readers new to the subject will be provided with all the necessary information to verify the calculations CUDA Fortran for Scientists and Engineers Gregory Ruetsch,Massimiliano Fatica,2013-09-11 CUDA Fortran for Scientists and Engineers shows how high performance application developers can leverage the power of GPUs using Fortran the familiar language of scientific computing and supercomputer performance benchmarking The authors presume no prior parallel computing experience and cover the basics along with best practices for efficient GPU computing using CUDA Fortran To help you add CUDA Fortran to existing Fortran codes the book explains how to understand the target GPU architecture identify computationally intensive parts of the code and modify the code to manage the data and parallelism and optimize performance All of this is done in Fortran without having to rewrite in another language Each concept is illustrated with actual examples so you can immediately evaluate the performance of your code in comparison Leverage the power of GPU computing with PGI s CUDA Fortran compiler Gain insights from members of the CUDA Fortran language development team Includes multi GPU programming in CUDA Fortran covering both peer to peer and message passing interface MPI approaches Includes full source code for all the examples and several case studies

Download source code and slides from the book s companion website   Dr. Euler's Fabulous Formula Paul J. Nahin,2006 Accessible to any reader with the equivalent of the first two years of college mathematics this is the story behind one of the world s most influential mathematical equations 2 halftones 77 line illustrations   **Stabilization, Safety, and Security of Distributed Systems** Colette Johnen,Elad Michael Schiller,Stefan Schmid,2021-11-08 This book constitutes the refereed proceedings of the 23rd International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2021 held virtually in November 2021 The 16 full papers 10 short and 14 invited papers presented were carefully reviewed and selected from 56 submissions The papers deal with the design and development of distributed systems with a focus on systems that are able to provide guarantees on their structure performance and or security in the face of an adverse operational environment   An Introduction to Computational Finance ⊡m⊡r U?ur,2009 Although there are several publications on similar subjects this book mainly focuses on pricing of options and bridges the gap between Mathematical Finance and Numerical Methodologies The author collects the key contributions of several monographs and selected literature values and displays their importance and composes them here to create a work which has its own characteristics in content and style This invaluable book provides working Matlab codes not only to implement the algorithms presented in the text but also to help readers code their own pricing algorithms in their preferred programming languages Availability of the codes under an Internet site is also offered by the author Not only does this book serve as a textbook in related undergraduate or graduate courses but it can also be used by those who wish to implement or learn pricing algorithms by themselves The basic methods of option pricing are presented in a self contained and unified manner and will hopefully help readers improve their mathematical and computational backgrounds for more advanced topics Errata s Errata   **Java Methods for Financial Engineering** Philip Barker,2007-05-16 In order to build a successful Java based application it is important to have a clear understanding of the principles underlying the various financial models Those models guide the application designer in choosing the most appropriate Java data structures and implementation strategy This book describes the principles of model building in financial engineering and explains those models as designs and working implementations for Java based applications Throughout the book a series of packaged classes are developed to address a wide range of financial applications Java methods are designed and implemented based on the most widely used models in financial engineering and investment practice The classes and methods are explained and designed in a way which allows the financial engineer complete flexibility The classes can be used as off the shelf working solutions or the innovative developer can re arrange and modify methods to create new products   **Computation and Simulation for Finance** Cónall Kelly,2024-07-18 This book offers an up to date introductory treatment of computational techniques applied to problems in finance placing issues such as numerical stability convergence and error analysis in both deterministic and stochastic settings at its core The first part provides a welcoming but nonetheless rigorous introduction to the fundamental theory of option pricing including European

American and exotic options along with their hedge parameters and combines a clear treatment of the mathematical framework with practical worked examples in Python The second part explores the main computational methods for valuing options within the Black Scholes framework lattice Monte Carlo and finite difference methods The third and final part covers advanced topics for the simulation of financial processes beyond the standard Black Scholes setting Techniques for the analysis and simulation of multidimensional financial data including copulas are covered and will be of interest to those studying machine learning for finance There is also an in depth treatment of exact and approximate sampling methods for stochastic differential equation models of interest rates and volatilities Written for advanced undergraduate and masters level courses the book assumes some exposure to core mathematical topics such as linear algebra ordinary differential equations multivariate calculus probability and statistics at an undergraduate level While familiarity with Python is not required readers should be comfortable with basic programming constructs such as variables loops and conditional statements **Mathematical Modeling And Computation In Finance: With Exercises And Python And Matlab Computer Codes** Cornelis W Oosterlee,Lech A Grzelak,2019-10-29 This book discusses the interplay of stochastics applied probability theory and numerical analysis in the field of quantitative finance The stochastic models numerical valuation techniques computational aspects financial products and risk management applications presented will enable readers to progress in the challenging field of computational finance When the behavior of financial market participants changes the corresponding stochastic mathematical models describing the prices may also change Financial regulation may play a role in such changes too The book thus presents several models for stock prices interest rates as well as foreign exchange rates with increasing complexity across the chapters As is said in the industry do not fall in love with your favorite model The book covers equity models before moving to short rate and other interest rate models We cast these models for interest rate into the Heath Jarrow Morton framework show relations between the different models and explain a few interest rate products and their pricing The chapters are accompanied by exercises Students can access solutions to selected exercises while complete solutions are made available to instructors The MATLAB and Python computer codes used for most tables and figures in the book are made available for both print and e book users This book will be useful for people working in the financial industry for those aiming to work there one day and for anyone interested in quantitative finance The topics that are discussed are relevant for MSc and PhD students academic researchers and for quants in the financial industry **Einführung in die numerische Berechnung von Finanzderivaten** Rüdiger Seydel,2016-08-23 Das Lehrbuch erkl rt numerische Methoden der Finanzmathematik exemplarisch anhand der Berechnung von Optionspreisen Nach einer Einf hrung in die Modellierung wird die numerische Simulation der Stochastik dargestellt mit Zufallszahlen und Monte Carlo Verfahren Es folgt die Numerik zu Black Scholes Gleichungen mit Differenzenverfahren und Finite Element Verfahren Die vorgestellten Algorithmen lassen sich unmittelbar implementieren bungsaufgaben instruktive Abbildungen sowie themenbezogene Anh nge und erg nzendes

Material auf der Webseite des Autors runden das Buch ab Die zweite Auflage ist stark berarbeitet und erheblich umfangreicher Verwerfungsmethoden und Monte Carlo Methoden f r Optionen amerikanischen Typs erg nzen die stochastischen Methoden und ein neues Kapitel befasst sich mit der Bewertung von Optionen auf zwei Assets mit Strafterm Methoden und h herdimensionalen B umen

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