

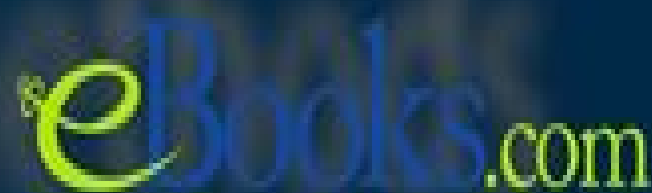
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Derivative Securities and Difference Methods

Second Edition

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Derivative Securities And Difference Methods

L. C. G. Rogers, D. Talay



Derivative Securities And Difference Methods:

Derivative Securities and Difference Methods You-lan Zhu,Xiaonan Wu,I-Liang Chern,2004-08-27 This book studies pricing financial derivatives with a partial differential equation approach The treatment is mathematically rigorous and covers a variety of topics in finance including forward and futures contracts the Black Scholes model European and American type options free boundary problems lookback options interest rate models interest rate derivatives swaps caps floors and collars Each chapter concludes with exercises

A Course in Derivative Securities Kerry Back,2005-10-11 Deals with pricing and hedging financial derivatives Computational methods are introduced and the text contains the Excel VBA routines corresponding to the formulas and procedures described in the book This is valuable since computer simulation can help readers understand the theory The book succeeds in presenting intuitively advanced derivative modelling it provides a useful bridge between introductory books and the more advanced literature

MATHEMATICAL REVIEWS

Mathematical Methods for Financial Markets Monique Jeanblanc,Marc Yor,Marc Chesney,2009-10-03 Mathematical finance has grown into a huge area of research which requires a large number of sophisticated mathematical tools This book simultaneously introduces the financial methodology and the relevant mathematical tools in a style that is mathematically rigorous and yet accessible to practitioners and mathematicians alike It interlaces financial concepts such as arbitrage opportunities admissible strategies contingent claims option pricing and default risk with the mathematical theory of Brownian motion diffusion processes and Levy processes The first half of the book is devoted to continuous path processes whereas the second half deals with discontinuous processes The extensive bibliography comprises a wealth of important references and the author index enables readers quickly to locate where the reference is cited within the book making this volume an invaluable tool both for students and for those at the forefront of research and practice

Numerical Methods in Finance L. C. G. Rogers,D. Talay,1997-06-26 Numerical Methods in Finance describes a wide variety of numerical methods used in financial analysis

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

Tools for Computational Finance Rüdiger U. Seydel, 2009-04-03 Tools for Computational Finance offers a clear explanation of computational issues arising in financial mathematics The new third edition is thoroughly revised and significantly extended including an extensive new section on analytic methods focused mainly on interpolation approach and quadratic approximation Other new material is devoted to risk neutrality early exercise curves multidimensional Black Scholes models the integral representation of options and the derivation of the Black Scholes equation New figures more exercises and expanded background material make this guide a real must to have for everyone working in the world of financial engineering

Efficient Methods for Valuing Interest Rate Derivatives Antoon Pelsser, 2013-03-09 Efficient Methods for Valuing Interest Rate Derivatives provides an overview of the models that can be used for valuing and managing interest rate derivatives Split into two parts the first discusses and compares the traditional models such as spot and forward rate models while the second concentrates on the more recently developed Market models Unlike most of his competitors the author's focus is not only on the mathematics Antoon Pelsser draws on his experience in industry to explore the practical issues such as the implementation of models and model selection Aimed at people with a solid quantitative background this book will be of particular interest to risk managers interest rate derivative traders quantitative researchers portfolio and fund managers and students of mathematics and economics but it will also prove invaluable to anyone looking for a good overview of interest rate derivative modelling

Finite Difference Methods in Financial Engineering Daniel J. Duffy, 2013-10-28 The world of quantitative finance QF is one of the fastest growing areas of research and its practical applications to derivatives pricing problem Since the discovery of the famous Black Scholes equation in the 1970s we have seen a surge in the number of models for a wide range of products such as plain and exotic options interest rate derivatives real options and many others Gone are the days when it was possible to price these derivatives analytically For most problems we must resort to some kind of approximate method In this book we employ partial differential equations PDE to describe a range of one factor and multi factor derivatives products such as plain European and American options multi asset options Asian options interest rate options and real options PDE techniques allow us to create a framework for modeling complex and interesting derivatives products Having defined the PDE problem we then approximate it using the Finite Difference Method FDM This method has been used for many application areas such as fluid dynamics heat transfer semiconductor simulation and astrophysics to name just a few In this book we apply the same techniques to pricing real life derivative products We use both traditional or well known methods as well as a number of

advanced schemes that are making their way into the QF literature Crank Nicolson exponentially fitted and higher order schemes for one factor and multi factor options Early exercise features and approximation using front fixing penalty and variational methods Modelling stochastic volatility models using Splitting methods Critique of ADI and Crank Nicolson schemes when they work and when they don't work Modelling jumps using Partial Integro Differential Equations PIDE Free and moving boundary value problems in QF Included with the book is a CD containing information on how to set up FDM algorithms how to map these algorithms to C as well as several working programs for one factor and two factor models We also provide source code so that you can customize the applications to suit your own needs

Binomial Models in Finance John van der Hoek, Robert J. Elliott, 2006 This book deals with many topics in modern financial mathematics in a way that does not use advanced mathematical tools and shows how these models can be numerically implemented in a practical way The book is aimed at undergraduate students MBA students and executives who wish to understand and apply financial models in the spreadsheet computing environment The basic building block is the one step binomial model where a known price today can take one of two possible values at the next time In this simple situation risk neutral pricing can be defined and the model can be applied to price forward contracts exchange rate contracts and interest rate derivatives The simple one period framework can then be extended to multi period models The authors show how binomial tree models can be constructed for several applications to bring about valuations consistent with market prices The book closes with a novel discussion of real options John van der Hoek is Senior Lecturer in Applied Mathematics at the University of Adelaide He has developed courses in finance for a number of years at various levels and is a regular plenary speaker at major conferences on Quantitative Finance Robert J Elliott is RBC Financial Group Professor of Finance at the Haskayne School of Business at the University of Calgary He is the author of over 300 research papers and several books including Mathematics of Financial Markets Second Edition with P Ekkehard Kopp Stochastic Calculus and Applications Hidden Markov Models with Lahkdar Aggoun and John Moore and Measure Theory and Filtering Theory and Applications with Lakhdar Aggoun He is an Associate Editor of Mathematical Finance Stochastics and Stochastics Reports Stochastic Analysis and Applications and the Canadian Applied Mathematics Quarterly

Stochastic Calculus of Variations in Mathematical Finance Paul Malliavin, Anton Thalmaier, 2006-02-25 Malliavin calculus provides an infinite dimensional differential calculus in the context of continuous paths stochastic processes The calculus includes formulae of integration by parts and Sobolev spaces of differentiable functions defined on a probability space This new book demonstrating the relevance of Malliavin calculus for Mathematical Finance starts with an exposition from scratch of this theory Greeks price sensitivities are reinterpreted in terms of Malliavin calculus Integration by parts formulae provide stable Monte Carlo schemes for numerical valuation of digital options Finite dimensional projections of infinite dimensional Sobolev spaces lead to Monte Carlo computations of conditional expectations useful for computing American options The discretization error of the Euler scheme for a stochastic differential equation is

expressed as a generalized Watanabe distribution on the Wiener space Insider information is expressed as an infinite dimensional drift The last chapter gives an introduction to the same objects in the context of jump processes where incomplete markets appear

Applications of Fourier Transform to Smile Modeling Jianwei Zhu, 2009-10-03 This book addresses the applications of Fourier transform to smile modeling Smile effect is used generically by financial engineers and risk managers to refer to the inconsistencies of quoted implied volatilities in financial markets or more mathematically to the leptokurtic distributions of financial assets and indices Therefore a sound modeling of smile effect is the central challenge in quantitative finance Since more than one decade Fourier transform has triggered a technical revolution in option pricing theory Almost all new developed option pricing models especially in connection with stochastic volatility and random jump have extensively applied Fourier transform and the corresponding inverse transform to express option pricing formulas The large accommodation of the Fourier transform allows for a very convenient modeling with a general class of stochastic processes and distributions This book is then intended to present a comprehensive treatment of the Fourier transform in the option valuation covering the most stochastic factors such as stochastic volatilities and interest rates Poisson and Levy jumps including some asset classes such as equity FX and interest rates and providing numerical examples and prototype programming codes I hope that readers will benefit from this book not only by gaining an overview of the advanced theory and the vast large literature on these topics but also by gaining a first hand feedback from the practice on the applications and implementations of the theory

Markets with Transaction Costs Yuri Kabanov, Mher Safarian, 2009-12-04 The book is the first monograph on this highly important subject

Modelling, Pricing, and Hedging Counterparty Credit Exposure Giovanni Cesari, John Aquilina, Niels Charpillon, Zlatko Filipovic, Gordon Lee, Ion Manda, 2009-12-06 It was the end of 2005 when our employer a major European Investment Bank gave our team the mandate to compute in an accurate way the counterparty credit exposure arising from exotic derivatives traded by the firm As often happens exposure of products such as for example exotic interest rate or credit derivatives were modelled under conservative assumptions and credit officers were struggling to assess the real risk We started with a few models written on spreadsheets tailored to very specific instruments and soon it became clear that a more systematic approach was needed So we wrote some tools that could be used for some classes of relatively simple products A couple of years later we are now in the process of building a system that will be used to trade and hedge counterparty credit exposure in an accurate way for all types of derivative products in all asset classes We had to overcome problems ranging from modelling in a consistent manner different products booked in different systems and building the appropriate architecture that would allow the computation and pricing of credit exposure for all types of products to finding the appropriate management structure across Business Risk and IT divisions of the firm In this book we describe some of our experience in modelling counterparty credit exposure computing credit valuation adjustments determining appropriate hedges and building a reliable system

Term-Structure Models Damir Filipovic, 2009-07-28 Changing interest

rates constitute one of the major risk sources for banks insurance companies and other financial institutions Modeling the term structure movements of interest rates is a challenging task This volume gives an introduction to the mathematics of term structure models in continuous time It includes practical aspects for fixed income markets such as day count conventions duration of coupon paying bonds and yield curve construction arbitrage theory short rate models the Heath Jarrow Morton methodology consistent term structure parametrizations affine diffusion processes and option pricing with Fourier transform LIBOR market models and credit risk The focus is on a mathematically straightforward but rigorous development of the theory Students researchers and practitioners will find this volume very useful Each chapter ends with a set of exercises that provides source for homework and exam questions Readers are expected to be familiar with elementary calculus basic probability theory and real and complex analysis

Difference Equations Ronald E. Mickens, 2015-03-06

Difference Equations Theory Applications and Advanced Topics Third Edition provides a broad introduction to the mathematics of difference equations and some of their applications Many worked examples illustrate how to calculate both exact and approximate solutions to special classes of difference equations Along with adding several advanced to

Martingale Methods in Financial Modelling Marek Musiela, 2013-06-29 The origin of this book can be traced to courses on financial mathematics taught by us at the University of New South Wales in Sydney Warsaw University of Technology Politechnika Warszawska and Institut National Polytechnique de Grenoble Our initial aim was to write a short text around the material used in two one semester graduate courses attended by students with diverse disciplinary backgrounds mathematics physics computer science engineering economics and commerce The anticipated diversity of potential readers explains the somewhat unusual way in which the book is written It starts at a very elementary mathematical level and does not assume any prior knowledge of financial markets Later it develops into a text which requires some familiarity with concepts of stochastic calculus the basic relevant notions and results are collected in the appendix Over time what was meant to be a short text acquired a life of its own and started to grow The final version can be used as a textbook for three one semester courses one at undergraduate level the other two as graduate courses The first part of the book deals with the more classical concepts and results of arbitrage pricing theory developed over the last thirty years and currently widely applied in financial markets The second part devoted to interest rate modelling is more subjective and thus less standard A concise survey of short term interest rate models is presented However the special emphasis is put on recently developed models built upon market interest rates

Semiparametric Modeling of Implied Volatility Matthias R. Fengler, 2005-12-19 Yet that weakness is also its greatest strength People like the model because they can easily understand its assumptions The model is often good as a first approximation and if you can see the holes in the assumptions you can use the model in more sophisticated ways Black 1992 Expected volatility as a measure of risk involved in economic decision making is a key ingredient in modern financial theory the rational risk averse investor will seek to balance the trade-off between the

risk he bears and the return he expects The more volatile the asset is i.e. the more it is prone to excessive price fluctuations the higher will be the expected premium he demands Markowitz 1959 followed by Sharpe 1964 and Lintner 1965 were among the first to quantify the idea of the simple equation more risk means higher return in terms of equilibrium models Since then the analysis of volatility and price fluctuations has sparked a vast literature in theoretical and quantitative finance that refines and extends these early models As the most recent climax of this story one may see the Nobel prize in Economics granted to Robert Engle in 2003 for his path breaking work on modeling time dependent volatility

Essays in Derivatives Don M. Chance, 2011-07-05 In the updated second edition of Don Chance's well received Essays in Derivatives the author once again keeps derivatives simple enough for the beginner but offers enough in depth information to satisfy even the most experienced investor This book provides up to date and detailed coverage of various financial products related to derivatives and contains completely new chapters covering subjects that include why derivatives are used forward and futures pricing operational risk and best practices

Risk and Asset Allocation Attilio Meucci, 2009-05-22 Discusses in the practical and theoretical aspects of one period asset allocation i.e. market Modeling invariants estimation portfolio evaluation and portfolio optimization in the presence of estimation risk The book is software based many of the exercises simulate in Matlab the solution to practical problems and can be downloaded from the book's web site

Financial Modeling Under Non-Gaussian Distributions Eric Jondeau, Ser-Huang Poon, Michael Rockinger, 2007-04-05 This book examines non Gaussian distributions It addresses the causes and consequences of non normality and time dependency in both asset returns and option prices The book is written for non mathematicians who want to model financial market prices so the emphasis throughout is on practice There are abundant empirical illustrations of the models and techniques described many of which could be equally applied to other financial time series

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