**Springer Finance** 

# Yue-Kuen Kwok

# Mathematical Models of Financial Derivatives

Second Edition



Springer

John van der Hoek, Robert J. Elliott

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 instutions 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 profilencies 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 A Course in Derivative Securities Kerry Back, 2005-10-11 Deals with pricing and hedging financial financial derivatives 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 **Financial Mathematics, Derivatives** and Structured Products Raymond H. Chan, Yves ZY. Guo, Spike T. Lee, Xun Li, 2024-06-12 This book introduces readers to the financial markets derivatives structured products and how the products are modelled and implemented by practitioners In addition it equips readers with the necessary knowledge of financial markets needed in order to work as product structurers traders sales or risk managers This second edition substantially extends updates and clarifies the previous edition New materials and enhanced contents include but not limited to the role of central counterparties for derivatives transactions the reference rates to replace LIBOR risk neutral modelling for futures and forward discussions and analysis on risk neutral framework and num raires discrete dividend modelling variance reduction techniques for Monte Carlo method finite difference method analysis tree method FX modelling multi name credit derivatives modelling local volatility model forward variance model and local stochastic volatility model to reflect market practice As the book seeks to unify the derivatives modelling and the financial engineering practice in the market it will be of interest to financial practitioners and

academic researchers alike The book can also be used as a textbook for the following courses Financial Mathematics undergraduate level Stochastic Modelling in Finance postgraduate level Financial Markets and Derivatives undergraduate level Structured Products and Solutions undergraduate postgraduate level *Derivative Securities and Difference Methods* You-lan Zhu, Xiaonan Wu, I-Liang Chern, 2013-03-09 In the past three decades great progress has been made in the theory and practice of financial derivative securities Now huge volumes of financial derivative securities are traded on the market every day This causes a big demand for experts who know how to price financial derivative securities This book is designed as a textbook for graduate students in a mathematical finance pro gram and as a reference book for the people who already work in this field We hope that a person who has studied this book and who knows how to write codes for engineering computation can handle the business of providing efficient derivative pricing codes In order for this book to be used by various people the prerequisites to study the majority of this book are multivariable calculus linear algebra and basic probability and statistics In this book the determination of the prices of financial derivative secu rities is reduced to solving partial differential equation problems i e a PDE approach is adopted in order to find the price of a derivative security This book is divided into two parts In the first part we discuss how to establish the corresponding partial differential equations and find the final and nec essary boundary conditions for a specific derivative product If possible we derive its explicit solution and describe some properties of the solution In many cases no explicit solution has been found so far Numerical Methods in Finance and Economics Paolo Brandimarte, 2013-06-06 A state of the art introduction to the powerful mathematical and statistical tools used in the field of finance The use of mathematical models and numerical techniques is a practice employed by a growing number of applied mathematicians working on applications in finance Reflecting this development Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition bridges the gap between financial theory and computational practice while showing readers how to utilize MATLAB the powerful numerical computing environment for financial applications The author provides an essential foundation in finance and numerical analysis in addition to background material for students from both engineering and economics perspectives A wide range of topics is covered including standard numerical analysis methods Monte Carlo methods to simulate systems affected by significant uncertainty and optimization methods to find an optimal set of decisions Among this book s most outstanding features is the integration of MATLAB which helps students and practitioners solve relevant problems in finance such as portfolio management and derivatives pricing This tutorial is useful in connecting theory with practice in the application of classical numerical methods and advanced methods while illustrating underlying algorithmic concepts in concrete terms Newly featured in the Second Edition In depth treatment of Monte Carlo methods with due attention paid to variance reduction strategies New appendix on AMPL in order to better illustrate the optimization models in Chapters 11 and 12 New chapter on binomial and trinomial lattices Additional treatment of partial differential equations with two space dimensions Expanded treatment within the

chapter on financial theory to provide a more thorough background for engineers not familiar with finance New coverage of advanced optimization methods and applications later in the text Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition presents basic treatments and more specialized literature and it also uses algebraic languages such as AMPL to connect the pencil and paper statement of an optimization model with its solution by a software library Offering computational practice in both financial engineering and economics fields this book equips practitioners with the necessary techniques to measure and manage risk Advanced Derivatives Pricing and Risk Management Claudio Albanese, Giuseppe Campolieti, 2006 Book and CDROM include the important topics and cutting edge research in financial derivatives and risk management An Introduction to Mathematical Finance with Applications Arlie O. Petters, Xiaoying Dong, 2016-06-17 This textbook aims to fill the gap between those that offer a theoretical treatment without many applications and those that present and apply formulas without appropriately deriving them The balance achieved will give readers a fundamental understanding of key financial ideas and tools that form the basis for building realistic models including those that may become proprietary Numerous carefully chosen examples and exercises reinforce the student s conceptual understanding and facility with applications The exercises are divided into conceptual application based and theoretical problems which probe the material deeper The book is aimed toward advanced undergraduates and first year graduate students who are new to finance or want a more rigorous treatment of the mathematical models used within While no background in finance is assumed prerequisite math courses include multivariable calculus probability and linear algebra The authors introduce additional mathematical tools as needed. The entire textbook is appropriate for a single year long course on introductory mathematical finance The self contained design of the text allows for instructor flexibility in topics courses and those focusing on financial derivatives Moreover the text is useful for mathematicians physicists and engineers who want to learn finance via an approach that builds their financial intuition and is explicit about model building as well as business school students who want a treatment of finance that is deeper but not overly theoretical **Mathematics of Financial Markets** Robert J Elliott, P. Ekkehard Kopp, 2013-11-11 This work is aimed at an audience with asound mathematical background wishing to learn about the rapidly expanding field of mathematical finance Its content is suitable particularly for graduate students in mathematics who have a background in measure theory and prob ability The emphasis throughout is on developing the mathematical concepts re quired for the theory within the context of their application No attempt is made to cover the bewildering variety of novel or exotic financial instru ments that now appear on the derivatives markets the focus throughout remains on a rigorous development of the more basic options that lie at the heart of the remarkable range of current applications of martingale theory to financial markets The first five chapters present the theory in a discrete time framework Stochastic calculus is not required and this material should be accessible to anyone familiar with elementary probability theory and linear algebra The basic idea of pricing by arbitrage or rather by nonarbitrage is

presented in Chapter 1 The unique price for a European option in a single period binomial model is given and then extended to multi period binomial models Chapter 2 intro duces the idea of a martingale measure for price pro cesses Following a discussion of the use of self financing trading strategies to hedge against trading risk it is shown how options can be priced using an equivalent measure for which the discounted price process is a mar tingale Problems and Solutions in Mathematical Finance, Volume 2 Eric Chin, Dian Nel, Sverrir lafsson, 2017-03-13 Detailed guidance on the mathematics behind equity derivatives Problems and Solutions in Mathematical Finance Volume II is an innovative reference for quantitative practitioners and students providing quidance through a range of mathematical problems encountered in the finance industry This volume focuses solely on equity derivatives problems beginning with basic problems in derivatives securities before moving on to more advanced applications including the construction of volatility surfaces to price exotic options By providing a methodology for solving theoretical and practical problems whilst explaining the limitations of financial models this book helps readers to develop the skills they need to advance their careers. The text covers a wide range of derivatives pricing such as European American Asian Barrier and other exotic options Extensive appendices provide a summary of important formulae from calculus theory of probability and differential equations for the convenience of readers As Volume II of the four volume Problems and Solutions in Mathematical Finance series this book provides clear explanation of the mathematics behind equity derivatives in order to help readers gain a deeper understanding of their mechanics and a firmer grasp of the calculations Review the fundamentals of equity derivatives Work through problems from basic securities to advanced exotics pricing Examine numerical methods and detailed derivations of closed form solutions Utilise formulae for probability differential equations and more Mathematical finance relies on mathematical models numerical methods computational algorithms and simulations to make trading hedging and investment decisions For the practitioners and graduate students of quantitative finance Problems and Solutions in Mathematical Finance Volume II provides essential guidance principally towards the subject of equity derivatives **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

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