# Antoon Pelsser

# Efficient Methods for Valuing Interest Rate Derivatives

Springer

# Efficient Methods For Valuing Interest Rate Derivatives

**Attilio Meucci**

**Efficient Methods For Valuing Interest Rate Derivatives:**

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 Efficient Methods for Valuing Interest Rate Derivatives Antoon Pelsser,2000-07-31 This book 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 a host of practical issues Interest Rate Derivatives Ingo Beyna,2013-02-20 The class of interest rate models introduced by O Cheyette in 1994 is a subclass of the general HJM framework with a time dependent volatility parameterization This book addresses the above mentioned class of interest rate models and concentrates on the calibration valuation and sensitivity analysis in multifactor models It derives analytical pricing formulas for bonds and caplets and applies several numerical valuation techniques in the class of Cheyette model i e Monte Carlo simulation characteristic functions and PDE valuation based on sparse grids Finally it focuses on the sensitivity analysis of Cheyette models and derives Model and Market Greeks To the best of our knowledge this sensitivity analysis of interest rate derivatives in the class of Cheyette models is unique in the literature Up to now the valuation of interest rate derivatives using PDEs has been restricted to 3 dimensions only since the computational effort was too great The author picks up the sparse grid technique adjusts it slightly and can solve high dimensional PDEs four dimensions plus time accurately in reasonable time Many topics investigated in this book are new areas of research and make a significant contribution to the scientific community of financial engineers They also represent a valuable development for practitioners *Efficient Methods for Valuing Interest Rates Derivatives* ,2000 Markets with Transaction Costs Yuri Kabanov,Mher Safarian,2009-12-04 The book is the first monograph on this highly important subject *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 It calculus basic probability theory and real and complex analysis **The Concepts and Practice of Mathematical Finance** Mark S. Joshi,2003-12-24 For those starting out as practitioners of mathematical finance this is an ideal introduction It provides the reader with a clear understanding of the intuition behind derivatives pricing how models are implemented and how they are used and adapted in practice Strengths and weaknesses of different models e g Black Scholes stochastic volatility jump diffusion and variance gamma are examined Both the theory and the implementation of the industry standard LIBOR market model are considered in detail Uniquely the book includes extensive discussion of the ideas behind the models and is even handed in examining various approaches to the subject Thus each pricing problem is solved using several methods Worked examples and exercises with answers are provided in plenty and computer projects are given for many problems The author brings to this book a blend of practical experience and rigorous mathematical background and supplies here the working knowledge needed to become a good quantitative analyst **The LIBOR Market Model in Practice** Dariusz Gatarek,Przemyslaw Bachert,Robert Maksymiuk,2007-01-30 The LIBOR Market Model LMM is the first model of interest rates dynamics consistent with the market practice of pricing interest rate derivatives and therefore it is widely used by financial institution for valuation of interest rate derivatives This book provides a full practitioner s approach to the LIBOR Market Model It adopts the specific language of a quantitative analyst to the largest possible level and is one of first books on the subject written entirely by quants The book is divided into three parts theory calibration and simulation New and important issues are covered such as various drift approximations various parametric and nonparametric calibrations and the uncertain volatility approach to smile modelling a version of the HJM model based on market observables and the duality between BGM and HJM models Co authored by Dariusz Gatarek the G in the BGM model who is internationally known for his work on LIBOR market models this book offers an essential perspective on the global benchmark for short term interest rates **Modeling Derivatives in C++** Justin London,2005-01-21 This book is the definitive and most comprehensive guide to modeling derivatives in C today Providing readers with not only the theory and math behind the models as well as the fundamental concepts of financial engineering but also actual robust object oriented C code this is a practical introduction to the most important derivative models used in practice today including equity standard and exotics including barrier lookback and Asian and fixed income bonds caps swaptions swaps credit derivatives The book provides complete C implementations for many of the most important derivatives and interest rate pricing models used on

Wall Street including Hull White BDT CIR HJM and LIBOR Market Model London illustrates the practical and efficient implementations of these models in real world situations and discusses the mathematical underpinnings and derivation of the models in a detailed yet accessible manner illustrated by many examples with numerical data as well as real market data A companion CD contains quantitative libraries tools applications and resources that will be of value to those doing quantitative programming and analysis in C Filled with practical advice and helpful tools Modeling Derivatives in C will help readers succeed in understanding and implementing C when modeling all types of derivatives      <u>Computational Finance Using C and C#</u> George Levy,2016-07-21 Computational Finance Using C and C Derivatives and Valuation Second Edition provides derivatives pricing information for equity derivatives interest rate derivatives foreign exchange derivatives and credit derivatives By providing free access to code from a variety of computer languages such as Visual Basic Excel C C and C it gives readers stand alone examples that they can explore before delving into creating their own applications It is written for readers with backgrounds in basic calculus linear algebra and probability Strong on mathematical theory this second edition helps empower readers to solve their own problems Features new programming problems examples and exercises for each chapter Includes freely accessible source code in languages such as C C VBA C and Excel Includes a new chapter on the history of finance which also covers the 2008 credit crisis and the use of mortgage backed securities CDSs and CDOs Emphasizes mathematical theory Features new programming problems examples and exercises with solutions added to each chapter Includes freely accessible source code in languages such as C C VBA C Excel Includes a new chapter on the credit crisis of 2008 Emphasizes mathematical theory      *Interest Rate Models Theory and Practice* Damiano Brigo,Fabio Mercurio,2013-04-17 The 2nd edition of this successful book has several new features The calibration discussion of the basic LIBOR market model has been enriched considerably with an analysis of the impact of the swaptions interpolation technique and of the exogenous instantaneous correlation on the calibration outputs A discussion of historical estimation of the instantaneous correlation matrix and of rank reduction has been added and a LIBOR model consistent swaption volatility interpolation technique has been introduced The old sections devoted to the smile issue in the LIBOR market model have been enlarged into several new chapters New sections on local volatility dynamics and on stochastic volatility models have been added with a thorough treatment of the recently developed uncertain volatility approach Examples of calibrations to real market data are now considered The fast growing interest for hybrid products has led to new chapters A special focus here is devoted to the pricing of inflation linked derivatives The three final new chapters of this second edition are devoted to credit Since Credit Derivatives are increasingly fundamental and since in the reduced form modeling framework much of the technique involved is analogous to interest rate modeling Credit Derivatives mostly Credit Default Swaps CDS CDS Options and Constant Maturity CDS are discussed building on the basic short rate models and market models introduced earlier for the default free market Counterparty risk in interest rate payoff valuation is also considered motivated by the recent Basel II

framework developments **Financial Markets in Continuous Time** Rose-Anne Dana,Monique Jeanblanc-Picqué,Monique Jeanblanc,2007-07-12 This book explains key financial concepts mathematical tools and theories of mathematical finance It is organized in four parts The first brings together a number of results from discrete time models The second develops stochastic continuous time models for the valuation of financial assets the Black Scholes formula and its extensions for optimal portfolio and consumption choice and for obtaining the yield curve and pricing interest rate products The third part recalls some concepts and results of equilibrium theory and applies this in financial markets The last part tackles market incompleteness and the valuation of exotic options *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 portfolia evaluation and portfolio optimization in the prexence 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 *Demystifying Exotic Products* Chia Tan,2010-01-05 In recent times derivatives have been inaccurately labelled the financial weapons of mass destruction responsible for the worst financial crisis in recent history Inherently complex and perilous for the ill informed investment professional they can however also be gainfully harnessed This book is a practical guide to the complexities of exotic products written in simple terms based on the premise that derivatives are not homogenous and not necessarily dangerous By exploring common themes behind the construction of various structured products in interest rates equities and foreign exchange and investigating the economic environment that promoted the explosive growth of these products this book will help readers make sense of their relevance in this period of economic uncertainty Subsequently by explaining exotic products with simple mathematics it will aid readers in understanding their potential use in certain investment strategies whilst having a firm control over risk Exotic products need not be inaccessible By understanding the products available investors can make informed decisions ensuring features are consistent with their investment objectives and risk preferences Author Chia Chiang Tan takes readers through the risks and rewards of each product illustrating when products can damage investment strategies and how to avoid them leading to suitable profitable investments Ultimately this book will provide practitioners with an understanding of derivatives enabling them to determine for themselves which products will fit their investment strategy and how to use them based on the economic environment and inherent risks *Risk-Neutral Valuation* Nicholas H. Bingham,Rüdiger Kiesel,2013-06-29 Since its introduction in the early 1980s the risk neutral valuation principle has proved to be an important tool in the pricing and

hedging of financial derivatives Following the success of the first edition of Risk Neutral Valuation the authors have thoroughly revised the entire book taking into account recent developments in the field and changes in their own thinking and teaching In particular the chapters on Incomplete Markets and Interest Rate Theory have been updated and extended there is a new chapter on the important and growing area of Credit Risk and in recognition of the increasing popularity of L vy finance there is considerable new material on Infinite divisibility and L vy processes L vy based models in incomplete markets Further material such as exercises solutions to exercises and lecture slides are also available via the web to provide additional support for lecturers **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 ins tutions 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 profiiencies 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 **Arbitrage Theory in Continuous Time** Tomas Bjork,2020-01-16 The fourth edition of this widely used textbook on pricing and hedging of financial derivatives now also includes dynamic equilibrium theory and continues to combine sound mathematical principles with economic applications Concentrating on the probabilistic theory of continuous time arbitrage pricing of financial derivatives including stochastic optimal control theory and optimal stopping theory Arbitrage Theory in Continuous Time is designed for graduate students in economics and mathematics and combines the necessary mathematical background with a solid economic focus It includes a solved example for every new technique presented contains numerous exercises and suggests further reading in each chapter All concepts and ideas are discussed not only from a mathematics point of view but with lots of intuitive economic arguments In the substantially extended fourth edition Tomas Bjork has added completely new chapters on incomplete markets treating such topics as the Esscher transform the minimal martingale measure f divergences optimal investment

theory for incomplete markets and good deal bounds This edition includes an entirely new section presenting dynamic equilibrium theory covering unit net supply endowments models and the Cox Ingersoll Ross equilibrium factor model Providing two full treatments of arbitrage theory the classical delta hedging approach and the modern martingale approach this book is written so that these approaches can be studied independently of each other thus providing the less mathematically oriented reader with a self contained introduction to arbitrage theory and equilibrium theory while at the same time allowing the more advanced student to see the full theory in action This textbook is a natural choice for graduate students and advanced undergraduates studying finance and an invaluable introduction to mathematical finance for mathematicians and professionals in the market    Semiparametric Modeling of Implied Volatility Matthias R. Fengler,2005-12-19 This book offers recent advances in the theory of implied volatility and refined semiparametric estimation strategies and dimension reduction methods for functional surfaces The first part is devoted to smile consistent pricing approaches The second part covers estimation techniques that are natural candidates to meet the challenges in implied volatility surfaces Empirical investigations simulations and pictures illustrate the concepts    Interest-Rate Management Rudi Zagst,2013-04-17 Who gains all his ends did set the level too low Although the history of trading on financial markets started a long and possibly not exactly definable time ago most financial analysts agree that the core of mathematical finance dates back to the year 1973 Not only did the world s first option exchange open its doors in Chicago in that year but Black and Scholes published their pioneering paper BS73 on the pricing and hedging of contingent claims Since then their explicit pricing formula has become the market standard for pricing European stock op tions and related financial derivatives In contrast to the equity market no comparable model is accepted as standard for the interest rate market as a whole One of the reasons is that interest rate derivatives usually depend on the change of a complete yield curve rather than only one single interest rate This complicates the pricing of these products as well as the process of managing their market risk in an essential way Consequently a large number of interest rate models have appeared in the literature using one or more factors to explain the potential changes of the yield curve Beside the Black Bla76 and the Heath Jarrow Morton model HJM92 which are widely used in practice the LIBOR and swap market models introduced by Brace G tarek and Musiela BGM97 Miltersen Sandmann and Son dermann MSS97J and Jamshidian Jam98 are among the most promising ones

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