Financial modelling

Theory, Implementation and Practice with MATLAB Source

JÖRG KIENITZ
DANIEL WETTERAU

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Choirunnisa Arifa,Sardar Islam

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Financial Modelling Joerg Kienitz,Daniel Wetterau,2012-09-10 Financial modelling Theory Implementation and Practice with MATLAB Source J rg Kienitz and Daniel Wetterau Financial Modelling Theory Implementation and Practice with MATLAB Source is a unique combination of quantitative techniques the application to financial problems and programming using Matlab The book enables the reader to model design and implement a wide range of financial models for derivatives pricing and asset allocation providing practitioners with complete financial modelling workflow from model choice deriving prices and Greeks using semi analytic and simulation techniques and calibration even for exotic options The book is split into three parts The first part considers financial markets in general and looks at the complex models needed to handle observed structures reviewing models based on diffusions including stochastic local volatility models and pure jump processes It shows the possible risk neutral densities implied volatility surfaces option pricing and typical paths for a variety of models including SABR Heston Bates Bates Hull White Displaced Heston or stochastic volatility versions of Variance Gamma respectively Normal Inverse Gaussian models and finally multi dimensional models The stochastic local volatility Libor market model with time dependent parameters is considered and as an application how to price and risk manage CMS spread products is demonstrated The second part of the book deals with numerical methods which enables the reader to use the models of the first part for pricing and risk management covering methods based on direct integration and Fourier transforms and detailing the implementation of the COS CONV Carr Madan method or Fourier Space Time Stepping This is applied to pricing of European Bermudan and exotic options as well as the calculation of the Greeks The Monte Carlo simulation technique is outlined and bridge sampling is discussed in a Gaussian setting and for L vy processes Computation of Greeks is covered using likelihood ratio methods and adjoint techniques A chapter on state of the art optimization algorithms rounds up the toolkit for applying advanced mathematical models to financial problems and the last chapter in this section of the book also serves as an introduction to model risk The third part is devoted to the usage of Matlab introducing the software package by describing the basic functions applied for financial engineering The programming is approached from an object oriented perspective with examples to propose a framework for calibration hedging and the adjoint method for calculating Greeks in a Libor market model Source code used for producing the results and analysing the models is provided on the author s dedicated website http www mathworks de matlabcentral fileexchange authors 246981 *Financial Modelling* Joerg Kienitz,Daniel Wetterau,2013-02-18 Financial modelling Theory Implementation and Practice with MATLAB Source J rg Kienitz and Daniel Wetterau Financial Modelling Theory Implementation and Practice with MATLAB Source is a unique combination of quantitative techniques the application to financial problems and programming using Matlab The book enables the reader to model design and implement a wide range of financial models for derivatives pricing and asset allocation providing practitioners with complete financial modelling workflow from model choice deriving prices and Greeks

using semi analytic and simulation techniques and calibration even for exotic options The book is split into three parts The first part considers financial markets in general and looks at the complex models needed to handle observed structures reviewing models based on diffusions including stochastic local volatility models and pure jump processes It shows the possible risk neutral densities implied volatility surfaces option pricing and typical paths for a variety of models including SABR Heston Bates Bates Hull White Displaced Heston or stochastic volatility versions of Variance Gamma respectively Normal Inverse Gaussian models and finally multi dimensional models The stochastic local volatility Libor market model with time dependent parameters is considered and as an application how to price and risk manage CMS spread products is demonstrated The second part of the book deals with numerical methods which enables the reader to use the models of the first part for pricing and risk management covering methods based on direct integration and Fourier transforms and detailing the implementation of the COS CONV Carr Madan method or Fourier Space Time Stepping This is applied to pricing of European Bermudan and exotic options as well as the calculation of the Greeks The Monte Carlo simulation technique is outlined and bridge sampling is discussed in a Gaussian setting and for L vy processes Computation of Greeks is covered using likelihood ratio methods and adjoint techniques A chapter on state of the art optimization algorithms rounds up the toolkit for applying advanced mathematical models to financial problems and the last chapter in this section of the book also serves as an introduction to model risk The third part is devoted to the usage of Matlab introducing the software package by describing the basic functions applied for financial engineering The programming is approached from an object oriented perspective with examples to propose a framework for calibration hedging and the adjoint method for calculating Greeks in a Libor market model Source code used for producing the results and analysing the models is provided on the author s dedicated website http www mathworks de matlabcentral fileexchange authors 246981 **Foundations of Computational Finance with MATLAB** Ed McCarthy,2018-06-13 Graduate from Excel to MATLAB to keep up with the evolution of finance data Foundations of Computational Finance with MATLAB is an introductory text for both finance professionals looking to branch out from the spreadsheet and for programmers who wish to learn more about finance As financial data grows in volume and complexity its very nature has changed to the extent that traditional financial calculators and spreadsheet programs are simply no longer enough Today s analysts need more powerful data solutions with more customization and visualization capabilities and MATLAB provides all of this and more in an easy to learn skillset This book walks you through the basics and then shows you how to stretch your new skills to create customized solutions Part I demonstrates MATLAB s capabilities as they apply to traditional finance concepts and PART II shows you how to create interactive and reusable code link with external data sources communicate graphically and more Master MATLAB s basic operations including matrices arrays and flexible data structures Learn how to build your own customized solutions when the built ins just won t do Learn how to handle financial data and industry specific variables including risk and uncertainty Adopt

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methodological and practical issues based on his years of academic and industry experience *Interest Rate Derivatives Explained: Volume 2* Jörg Kienitz,Peter Caspers,2017-11-08 This book on Interest Rate Derivatives has three parts The first part is on financial products and extends the range of products considered in Interest Rate Derivatives Explained I In particular we consider callable products such as Bermudan swaptions or exotic derivatives The second part is on volatility modelling The Heston and the SABR model are reviewed and analyzed in detail Both models are widely applied in practice Such models are necessary to account for the volatility skew smile and form the fundament for pricing and risk management of complex interest rate structures such as Constant Maturity Swap options Term structure models are introduced in the third part We consider three main classes namely short rate models instantaneous forward rate models and market models For each class we review one representative which is heavily used in practice We have chosen the Hull White the Cheyette and the Libor Market model For all the models we consider the extensions bya stochastic basis and stochastic volatility component Finally we round up the exposition by giving an overview of the numerical methods that are relevant for successfully implementing the models considered in the book **Interest Rate Derivatives Explained** J. Kienitz,2014-12-05 Aimed at practitioners who need to understand the current fixed income markets and learn the techniques necessary to master the fundamentals this book provides a thorough but concise description of fixed income markets looking at the business products and structures and advanced modeling of interest rate instruments **MATHEMATICAL MODELLING OF SYSTEMS AND ANALYSIS** KAMALANAND, K.,JAWAHAR, P. MANNAR,2018-11-01 This book is written with the ideology of providing a simple yet concise explanation on the art of developing mathematical models This lively and engaging text explicates the basics of mathematical modelling with special focus on its applications and analysis Organised in thirteen chapters the book emphasises the theory and classification of systems modelling using ordinary differential equations calculus of variations stability analysis system identification and parameter estimation techniques Also it includes examples from the areas of mechanics chemical reactions biology population dynamics epidemiology and other allied fields of science engineering and technology This book is primarily designed for the postgraduate students of mathematics as well as for the undergraduate and postgraduate engineering students of various disciplines for their paper on Modelling and Simulation Mathematical Modelling and Simulation Mathematical Modelling KEY FEATURES Inclusion of entropy based modelling modelling using fractional order ODEs and artificial intelligence along with stability and catastrophe theory is the major highlight of this book Figures and tables well support the text Numerous worked out examples make the students aware of problem solving methodology Chapter end exercises help the students from practice point of view References and suggested reading at the end of the book broaden its scope 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

Hedge Fund Modelling and Analysis using MATLAB Paul Darbyshire,David Hampton,2014-06-03 The second book in Darbyshire and Hampton s Hedge Fund Modelling and Analysis series Hedge Fund Modelling and Analysis Using MATLAB takes advantage of the huge library of built in functions and suite of financial and analytic packages available to MATLAB This allows for a more detailed analysis of some of the more computationally intensive and advanced topics such as hedge fund classification performance measurement and mean variance optimisation Darbyshire and Hampton s first book in the series Hedge Fund Modelling and Analysis Using Excel and VBA is seen as a valuable supplementary text to this book Starting with an overview of the hedge fund industry the book then looks at a variety of commercially available hedge fund data sources After covering key statistical techniques and methods the book discusses mean variance optimisation hedge fund classification and performance with an emphasis on risk adjusted return metrics Finally common hedge fund market risk management techniques such as traditional Value at Risk methods modified extensions and expected shortfall are covered The book s dedicated website www darbyshirehampton com provides free downloads of all the data and MATLAB source code as well as other useful resources Hedge Fund Modelling and Analysis Using MATLAB serves as a definitive introductory guide to hedge fund modelling and analysis and will provide investors industry practitioners and students alike with a useful range of tools and techniques for analysing and estimating alpha and beta sources of return performing manager ranking and market risk management **Handbook of Financial Data and Risk Information I** Margarita S. Brose,Mark D. Flood,Dilip Krishna,Bill Nichols,2014 Volume I examines the business and regulatory context that makes risk information so important A vast set of quantitative techniques internal risk measurement and governance processes and supervisory reporting rules have grown up over time all with important implications for modeling and managing risk

information Without an understanding of the broader forces at work it is all too easy to get lost in the details Back cover

Advances in Cross-Section Data Methods in Applied Economic Research Nicholas Tsounis,Aspasia Vlachvei,2020-02-24 This proceedings volume presents new methods and applications in applied economics with special interest in advanced cross section data estimation methodology Featuring select contributions from the 2019 International Conference on Applied Economics ICOAE 2019 held in Milan Italy this book explores areas such as applied macroeconomics applied microeconomics applied financial economics applied international economics applied agricultural economics applied marketing and applied managerial economics International Conference on Applied Economics ICOAE is an annual conference that started in 2008 designed to bring together economists from different fields of applied economic research in order to share methods and ideas Applied economics is a rapidly growing field of economics that combines economic theory with econometrics to analyze economic problems of the real world usually with economic policy interest In addition there is growing interest in the field of applied economics for cross section data estimation methods tests and techniques This volume makes a contribution in the field of applied economic research by presenting the most current research Featuring country specific studies this book is of interest to academics students researchers practitioners and policy makers in applied economics econometrics and economic policy Quantitative Risk Management Alexander J. McNeil,Rüdiger Frey,Paul Embrechts,2015-05-26 This book provides the most comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management Whether you are a financial risk analyst actuary regulator or student of quantitative finance Quantitative Risk Management gives you the practical tools you need to solve real world problems Describing the latest advances in the field Quantitative Risk Management covers the methods for market credit and operational risk modelling It places standard industry approaches on a more formal footing and explores key concepts such as loss distributions risk measures and risk aggregation and allocation principles The book s methodology draws on diverse quantitative disciplines from mathematical finance and statistics to econometrics and actuarial mathematics A primary theme throughout is the need to satisfactorily address extreme outcomes and the dependence of key risk drivers Proven in the classroom the book also covers advanced topics like credit derivatives Fully revised and expanded to reflect developments in the field since the financial crisis Features shorter chapters to facilitate teaching and learning Provides enhanced coverage of Solvency II and insurance risk management and extended treatment of credit risk including counterparty credit risk and CDO pricing Includes a new chapter on market risk and new material on risk measures and risk aggregation **Corporate Governance Optimisation** Choirunnisa Arifa,Sardar Islam,2025-09-18 Corporate Governance Optimisation introduces an innovative approach to addressing some of the most pressing challenges in modern corporate governance Combining game theory mechanism design and hedge accounting this research monograph offers a comprehensive framework for resolving agency conflicts mitigating financial risks and improving organisational performance At the heart of this book is an integrated model that unites governance risk

management and hedge accounting demonstrating how these elements work together to address information asymmetry incentive misalignment and decision making complexities Grounded in rigorous research and real life data the book provides practical insights into how hedge accounting can stabilise financial outcomes support effective governance and enhance corporate value Designed for academics researchers and professionals in accounting finance and corporate governance this book bridges theory and practice offering a robust foundation for understanding and applying advanced governance models It is particularly valuable for those interested in how mathematical frameworks like game theory can be used to solve real world corporate challenges While rooted in financial optimisation the book s findings have broad implications for policy strategy and risk management in diverse organisational contexts *Sports Economics: Present and Future Impact on General Economics* Ruud H. Koning,Wolfgang Maennig,2016-11-21 No detailed description available for Sports Economics Present and Future Impact on General Economics *Sports Economics* Agnes Bäker,2012 No detailed description available for Sports Economics Present and Future Impact on General Economics Quantitative Methods for Economics and Finance J.E. Trinidad-Segovia,Miguel Ángel Sánchez-Granero,2021-02-12 This book is a collection of papers for the Special Issue Quantitative Methods for Economics and Finance of the journal Mathematics This Special Issue reflects on the latest developments in different fields of economics and finance where mathematics plays a significant role The book gathers 19 papers on topics such as volatility clusters and volatility dynamic forecasting stocks indexes cryptocurrencies and commodities trade agreements the relationship between volume and price trading strategies efficiency regression utility models fraud prediction or intertemporal choice *Machine Learning and AI in Finance* German Creamer,Gary Kazantsev,Tomaso Aste,2021-04-06 The significant amount of information available in any field requires a systematic and analytical approach to select the most critical information and anticipate major events During the last decade the world has witnessed a rapid expansion of applications of artificial intelligence AI and machine learning ML algorithms to an increasingly broad range of financial markets and problems Machine learning and AI algorithms facilitate this process understanding modelling and forecasting the behaviour of the most relevant financial variables The main contribution of this book is the presentation of new theoretical and applied AI perspectives to find solutions to unsolved finance questions This volume proposes an optimal model for the volatility smile for modelling high frequency liquidity demand and supply and for the simulation of market microstructure features Other new AI developments explored in this book includes building a universal model for a large number of stocks developing predictive models based on the average price of the crowd forecasting the stock price using the attention mechanism in a neural network clustering multivariate time series into different market states proposing a multivariate distance nonlinear causality test and filtering out false investment strategies with an unsupervised learning algorithm Machine Learning and AI in Finance explores the most recent advances in the application of innovative machine learning and artificial intelligence models to predict financial time series to simulate the

structure of the financial markets to explore nonlinear causality models to test investment strategies and to price financial options The chapters in this book were originally published as a special issue of the Quantitative Finance journal **Crisis Management: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2013-11-30 This book explores the latest empirical research and best real world practices for preventing weathering and recovering from disasters such as earthquakes or tsunamis to nuclear disasters and cyber terrorism Provided by publisher

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