

Quantitative Finance

Adil Reghai

Back to Basic Principles



Quantitative Finance Back To Basic Principles Applied Quantitative Finance

S. Scandizzo



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Quantitative Finance A. Reghai, 2014-11-25 The series of recent financial crises have thrown open the world of quantitative finance and financial modeling This book brings together proven and new methodologies from finance physics and engineering along with years of industry and academic experience to provide a cookbook of models for dealing with the challenges of today's markets

XVA Desks - A New Era for Risk Management I. Ruiz, 2015-04-27 Written by a practitioner with years working in CVA FVA and DVA this is a thorough practical guide to a topic at the very core of the derivatives industry It takes readers through all aspects of counterparty credit risk management and the business cycle of CVA DVA and FVA focusing on risk management pricing considerations and implementation

Equity Derivatives and Hybrids Oliver Brockhaus, 2016-04-29 Since the development of the Black Scholes model research on equity derivatives has evolved rapidly to the point where it is now difficult to cut through the myriad of literature to find relevant material Written by a quant with many years of experience in the field this book provides an up to date account of equity and equity hybrid equity rates equity credit equity foreign exchange derivatives modeling from a practitioner's perspective The content reflects the requirements of practitioners in financial institutions Quants will find a survey of state of the art models and guidance on how to efficiently implement them with regards to market data representation calibration and sensitivity computation Traders and structurers will learn about structured products selection of the most appropriate models as well as efficient hedging methods while risk managers will better understand market credit and model risk and find valuable information on advanced correlation concepts Equity Derivatives and Hybrids provides exhaustive coverage of both market standard and new approaches including Empirical properties of stock returns including autocorrelation and jumps Dividend discount models Non Markovian and discrete time volatility processes Correlation skew modeling via copula as well as local and stochastic correlation factors Hybrid modeling covering local and stochastic processes for interest rate hazard rate and volatility as well as closed form solutions Credit debt and funding valuation adjustment CVA DVA FVA Monte Carlo techniques for sensitivities including algorithmic differentiation path recycling as well as multilevel Written in a highly accessible manner with examples applications research and ideas throughout this book provides a valuable resource for quantitative minded practitioners and researchers

SABR and SABR LIBOR Market Models in Practice Christian Crispoldi, Gérald Wigger, Peter Larkin, 2016-04-29 Interest rate traders have been using the SABR model to price vanilla products for more than a decade However this model suffers however from a severe limitation its inability to value exotic products A term structure model la LIBOR Market Model LMM is often employed to value these more complex derivatives however the LMM is unable to capture the volatility smile A joint SABR LIBOR Market Model is the natural evolution towards a consistent pricing of vanilla and exotic products Knowledge of these models is essential to all aspiring interest rate quants traders and risk managers as well as an understanding of their failings and alternatives SABR and SABR Libor Market Models in

Practice is an accessible guide to modern interest rate modelling. Rather than covering an array of models which are seldom used in practice, it focuses on the SABR model, the market standard for vanilla products, the LIBOR Market Model, the most commonly used model for exotic products, and the extended SABR LIBOR Market Model. The book takes a hands-on approach, demonstrating simply how to implement and work with these models in a market setting. It bridges the gap between the understanding of the models from a conceptual and mathematical perspective and the actual implementation by supplementing the interest rate theory with modelling specific practical code examples written in Python.

Zero Lower Bound Term Structure Modeling L. Krippner, 2015-01-05. Nominal yields on government debt in several countries have fallen very near their zero lower bound (ZLB), causing a liquidity trap and limiting the capacity to stimulate economic growth. This book provides a comprehensive reference to ZLB structure modeling in an applied setting.

FX Barrier Options Zareer Dadachanji, 2016-04-29. Barrier options are a class of highly path-dependent exotic options which present particular challenges to practitioners in all areas of the financial industry. They are traded heavily as stand-alone contracts in the Foreign Exchange (FX) options market, their trading volume being second only to that of vanilla options. The FX options industry has correspondingly shown great innovation in this class of products and in the models that are used to value and risk manage them. FX structured products commonly include barrier features, and in order to analyse the effects that these features have on the overall structured product, it is essential first to understand how individual barrier options work and behave. **FX Barrier Options** takes a quantitative approach to barrier options in FX environments. Its primary perspectives are those of quantitative analysts, both in the front office and in control functions. It presents and explains concepts in a highly intuitive manner throughout, to allow quantitatively minded traders, structurers, marketers, salespeople, and software engineers to acquire a more rigorous analytical understanding of these products. The book derives, demonstrates, and analyses a wide range of models, modelling techniques, and numerical algorithms that can be used for constructing valuation models and risk management methods. Discussions focus on the practical realities of the market and demonstrate the behaviour of models based on real and recent market data across a range of currency pairs. It furthermore offers a clear description of the history and evolution of the different types of barrier options and elucidates a great deal of industry nomenclature and jargon.

Modeling and Valuation of Energy Structures Daniel Mahoney, 2016-01-26. Commodity markets present several challenges for quantitative modeling. These include high volatilities, small sample data sets, and physical operational complexity. In addition, the set of traded products in commodity markets is more limited than in financial or equity markets, making value extraction through trading more difficult. These facts make it very easy for modeling efforts to run into serious problems, as many models are very sensitive to noise and hence can easily fail in practice. **Modeling and Valuation of Energy Structures** is a comprehensive guide to quantitative and statistical approaches that have been successfully employed in support of trading operations, reflecting the author's 17 years of experience as a front office quant. The major theme of the

book is that simpler is usually better a message that is drawn out through the reality of incomplete markets small samples and informational constraints The necessary mathematical tools for understanding these issues are thoroughly developed with many techniques analytical econometric and numerical collected in a single volume for the first time A particular emphasis is placed on the central role that the underlying market resolution plays in valuation Examples are provided to illustrate that robust approximate valuations are to be preferred to overly ambitious attempts at detailed qualitative modeling

The Validation of Risk Models S. Scandizzo, 2016-07-01 This book is a one stop shop reference for risk management practitioners involved in the validation of risk models It is a comprehensive manual about the tools techniques and processes to be followed focused on all the models that are relevant in the capital requirements and supervisory review of large international banks

Optimization Methods for Gas and Power Markets Enrico Edoli, Stefano Fiorenzani, Tiziano Vargiolu, 2016-04-30 As power and gas markets are becoming more and more mature and globally competitive the importance of reaching maximum potential economic efficiency is fundamental in all the sectors of the value chain from investments selection to asset optimization trading and sales Optimization techniques can be used in many different fields of the energy industry in order to reduce production and financial costs increase sales revenues and mitigate all kinds of risks potentially affecting the economic margin For this reason the industry has now focused its attention on the general concept of optimization and to the different techniques mainly mathematical techniques to reach it Optimization Methods for Gas and Power Markets presents both theoretical elements and practical examples for solving energy optimization issues in gas and power markets Starting with the theoretical framework and the basic business and economics of power and gas optimization it quickly moves on to review the mathematical optimization problems inherent to the industry and their solutions all supported with examples from the energy sector Coverage ranges from very long term and capital intensive optimization problems such as investment valuation diversification to asset gas and power optimization hedging problems and pure trading decisions This book first presents the readers with various examples of optimization problems arising in power and gas markets then deals with general optimization problems and describes the mathematical tools useful for their solution The remainder of the book is dedicated to presenting a number of key business cases which apply the proposed techniques to concrete market problems Topics include static asset optimization real option evaluation dynamic optimization of structured products like swing virtual storage or virtual power plant contracts and optimal trading in intra day power markets As the book progresses so too does the level of mathematical complexity providing readers with an appreciation of the growing sophistication of even common problems in current market practice Optimization Methods for Gas and Power Markets provides a valuable quantitative guide to the technicalities of optimization methodologies in gas and power markets it is essential reading for practitioners in the energy industry and financial sector who work in trading quantitative analysis and energy risk modeling

Principles of Quantitative Development Manoj Thulasidas, 2012-03-13 Principles of Quantitative

Development is a practical guide to designing building and deploying a trading platform It is also a lucid and succinct expos on the trade life cycle and the business groups involved in managing it bringing together the big picture of how a trade flows through the systems and the role of a quantitative professional in the organization The book begins by looking at the need and demand for in house trading platforms addressing the current trends in the industry It then looks at the trade life cycle and its participants from beginning to end and then the functions within the front middle and back office giving the reader a full understanding and appreciation of the perspectives and needs of each function The book then moves on to platform design addressing all the fundamentals of platform design system architecture programming languages and choices Finally the book focuses on some of the more technical aspects of platform design and looks at traditional and new languages and approaches used in modern quantitative development The book is accompanied by a CD ROM featuring a fully working option pricing tool with source code and project building instructions illustrating the design principles discussed and enabling the reader to develop a mini trading platform The book is also accompanied by a website <http://pqd.thulasidas.com> that contains updates and companion materials

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