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Mathematical Methods For Foreign Exchange: A Financial ...
Mathematical methods for foreign exchange : a financial engineer's approach. [Alexander Lipton] -- This comprehensive book presents a systematic and practically oriented approach to mathematical modeling in finance, particularly in the foreign exchange context.

This comprehensive book presents a systematic and practically oriented approach to mathematical modeling in finance, particularly in the foreign exchange context. It describes all the relevant aspects of financial engineering, including derivative pricing, in detail. The book is self-contained, with the necessary mathematical, economic, and trading background carefully explained. In addition to the lucid treatment of the standard material, it describes many original results. The book can be used both as a text for students of financial engineering, and as a basic reference for risk managers, traders, and academics.

This comprehensive book presents a systematic and practically oriented approach to mathematical modeling in finance, particularly in the foreign exchange context. It describes all the relevant aspects of financial engineering, including derivative pricing, in detail. The book is self-contained, with the necessary mathematical, economic, and trading background carefully explained. In addition to the lucid treatment of the standard material, it describes many original results. The book can be used both as a text for students of financial engineering, and as a basic reference for risk managers, traders, and academics.

This book contains lectures delivered at the celebrated Seminar in Mathematical Finance at the Courant Institute. The lecturers and presenters of papers are prominent researchers and practitioners in the field of quantitative financial modeling. Most are faculty members at leading universities or Wall Street practitioners. The lectures deal with the emerging science of pricing and hedging derivative securities and, more generally, managing financial risk. Specific articles concern topics such as option theory, dynamic hedging, interest-rate modeling, portfolio theory, price forecasting using statistical methods, etc. Contents:Estimation and Data-Driven Models:Transition Densities for Interest Rate and Other Nonlinear Diffusions (Y Aït-Sahalia)Hidden Markov Experts (A Weigend & S-M Shi)When is Time Continuous? (A Lo et al.)Asset Prices are Brownian Motion: Only in Business Time (H Geman et al.)Hedging Under Stochastic Volatility (K Ronnie Sircar)Model Calibration and Volatility Smile:Determining Volatility Surfaces and Option Values from an Implied Volatility Smile (P Carr & D Madan)Reconstructing the Unknown Local Volatility Function (T Coleman et al.)Building a Consistent Pricing Model from Observed Option Prices (J-P Laurent & D Leisen)Weighted Monte Carlo: A New Technique for Calibrating Asset-Pricing Models (M Avellaneda et al.)Pricing and Risk Management:One- and Multi-Factor Valuation of Mortgages: Computational Problems and Shortcuts (A Levin)Simulating Bermudan Interest-Rate Derivatives (P Carr & G Yang)How to Use Self-Similarities to Discover Similarities of Path-Dependent Options (A Lipton)Monte Carlo Within a Day (J Cárdenas et al.)Decomposition and Search Techniques in Disjunctive Programs for Portfolio Selection (K Wyatt) Readership: Students and researchers in economics, finance and applied mathematics. Keywords:

This book describes a system of mathematical models and methods that can be used to analyze real economic and managerial decisions and to improve their effectiveness. Application areas include: management of development and operation budgets, assessment and management of economic systems using an energy entropy approach, equation of exchange rates and forecasting foreign exchange operations, evaluation of innovative projects, monitoring of governmental programs, risk management of investment processes, decisions on the allocation of resources, and identification of competitive industrial clusters. The proposed methods and models were tested on the example of Kazakhstan's economy, but the generated solutions will be useful for applications at other levels and in other countries. Regarding your book "Mathematical Methods and Models in Economics", I am impressed because now it is time when "econometrics" is becoming more appreciated by economists and by schools that are the hosts or employers of modern economists. ... Your presented results really impressed me. John F. Nash, Jr., Princeton University, Nobel Memorial Prize in Economic Sciences The book is within my scope of interest because of its novelty and practicality. First, there is a need for realistic modeling of complex systems, both natural and artificial that conclude computer and economic systems. There has been an ongoing effort in developing models dealing with complexity and incomplete knowledge. Consequently, it is clear to recognize the contribution of Mutanov to encapsulate economic modeling with emphasis on budgeting and innovation. Secondly, the method proposed by Mutanov has been verified by applying to the case of the Republic of Kazakhstan, with her vibrant emerging economy. Thirdly, Chapter 5 of the book is of particular interest for the computer technology community because it deals with innovation. In summary, the book of Mutanov should become one of the outstanding recognized pragmatic guides for dealing with innovative systems. Andrzej Rucinski, University of New Hampshire This book is unique in its theoretical findings and practical applicability. The book is an illuminating study based on an applied mathematical model which uses methods such as linear programming and input-output analysis. Moreover, this work demonstrates the author's great insight and academic brilliance in the fields of finance, technological innovations and marketing vis-à-vis the market economy. From both theoretical and practical standpoint, this work is indeed a great achievement. Yeon Cheon Oh, President of Seoul National University

Advanced Guidance to Excelling in the FX Market Once you have a textbook understanding of money market and foreign exchange products, turn to FX Options and Structured Products, Second Edition, for the beyond-vanilla options strategies and traded deals proven superior in today's post-credit crisis trading environment. With the thoroughness and balance of theory and practice only Uwe Wystup can deliver, this fully revised edition offers authoritative solutions for the real world in an easy-to-access format. See how specific products actually work through detailed case studies featuring clear examples of FX options, common structures and custom solutions. This complete resource is both a wellspring of ideas and a hands-on guide to structuring and executing your own strategies. Distinguish yourself with a valued skillset by: Working through practical and thought-provoking challenges in more than six dozen exercises, all with complete solutions in a companion volume Gaining a working knowledge of the latest, most popular products, including accumulators, kikos, target forwards and more Getting close to the everyday realities of the FX derivatives market through new, illuminating case studies for corporates, municipalities and private banking FX Options and Structured Products, Second Edition is your go-to road map to the exotic options in FX derivatives.

Praise for Foreign Exchange "Tim Weithers starts by telling the reader that foreign exchange is not difficult, just confusing, but Foreign Exchange: A Practical Guide to the FX Markets proves that money is much more exciting than anything it buys. This useful book is a whirlwind tour of the world's largest market, and the tour guide is an expert storyteller, inserting numerous fascinating insights and quirky facts throughout the book." -John R. Taylor, Chairman, CEO and CIO, FX Concepts "The book reflects the author's doctorate from the University of Chicago, several years' experience as an economics professor, and, most recently, a very successful decade as an executive at a huge international bank. These fundamental ingredients are seasoned with bits of wisdom and experience. What results is a very tasty intellectual stew." -Professor Jack Clark Francis, PhD, Professor of Economics and Finance, Bernard Baruch College "In this book, Tim Weithers clearly explains a very complicated subject. Foreign Exchange is full of jargon and conventions that make it very hard for non-professionals to gain a good understanding. Weither's book is a must for any student or professional who wants to learn the secrets of FX." -Niels O. Nygaard, Director of Financial Mathematics, The University of Chicago "An excellent text for students and practitioners who want to become acquainted with the arcane world of the foreign exchange market." -David DeRosa, PhD, founder, DeRosa Research and Trading, Inc., and Adjunct Professor of Finance, Yale School of Management "Tim Weithers provides a superb introduction to the arcana of foreign exchange markets. While primarily intended for practitioners, the book would be a valuable introduction for students with some knowledge of economics. The text is exceptionally clear with numeric examples and exercises that reinforce concepts. Frequent references are made to the economic theory behind the trading practices." -John F. O'Connell, Professor of Economics, College of the Holy Cross

This book covers foreign exchange options from the point of view of the finance practitioner. It contains everything a quant or trader working in a bank or hedge fund would need to know about the mathematics of foreign exchange—not just the theoretical mathematics covered in other books but also comprehensive coverage of implementation, pricing and calibration. With content developed with input from traders and with

examples using real-world data, this book introduces many of the more commonly requested products from FX options trading desks, together with the models that capture the risk characteristics necessary to price these products accurately. Crucially, this book describes the numerical methods required for calibration of these models – an area often neglected in the literature, which is nevertheless of paramount importance in practice. Thorough treatment is given in one unified text to the following features: Correct market conventions for FX volatility surface construction Adjustment for settlement and delayed delivery of options Pricing of vanillas and barrier options under the volatility smile Barrier bending for limiting barrier discontinuity risk near expiry Industry strength partial differential equations in one and several spatial variables using finite differences on nonuniform grids Fourier transform methods for pricing European options using characteristic functions Stochastic and local volatility models, and a mixed stochastic/local volatility model Three-factor long-dated FX model Numerical calibration techniques for all the models in this work The augmented state variable approach for pricing strongly path-dependent options using either partial differential equations or Monte Carlo simulation Connecting mathematically rigorous theory with practice, this is the essential guide to foreign exchange options in the context of the real financial marketplace.

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.

QFINANCE: The Ultimate Resource (5th edition) is the first-step reference for the finance professional or student of finance. Its coverage and author quality reflect a fine blend of practitioner and academic expertise, whilst providing the reader with a thorough education in the may facets of finance.

The present volume is dedicated to Marek Musiela, an eminent scholar and practitioner who is perhaps best-known for his important contributions to problems of derivative pricing, theory of term structure of interest rates, theory of defaultable securities and other topics in modern mathematical finance. It includes 25 research papers by 47 authors, established experts and newcomers alike, that cover the whole range of the "hot" topics in the discipline. The contributed articles not only give a clear picture about what is going on in this rapidly developing field of knowledge but provide methods ready for practical implementation. They also open new prospects for further studies in risk management, portfolio optimization and financial engineering.