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Advanced modelling in finance using Excel and VBA

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Advanced Modelling In Finance Using Excel And Vba

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Financial Analysis and Modeling Using Excel and VBA Chandan Sengupta, 2009-11-09 An updated look at the theory and practice of financial analysis and modeling Financial Analysis and Modeling Using Excel and VBA Second Edition presents a comprehensive approach to analyzing financial problems and developing simple to sophisticated financial models in all major areas of finance using Excel 2007 and VBA as well as earlier versions of both This expanded and fully updated guide reviews all the necessary financial theory and concepts and walks you through a wide range of real world financial problems and models that you can learn from use for practice and easily adapt for work and classroom use A companion website includes several useful modeling tools and fully working versions of all the models discussed in the book Teaches financial analysis and modeling and illustrates advanced features of Excel and VBA using a learn by doing approach Contains detailed coverage of the powerful features of Excel 2007 essential for financial analysis and modeling such as the Ribbon interface PivotTables data analysis and statistical analysis Other titles by Sengupta Financial Modeling Using C and The Only Proven Road to Investment Success Designed for self study classroom use and reference This comprehensive guide is an essential read for anyone who has to perform financial analysis or understand and implement financial models

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Implementing Models of Financial Derivatives Nick Webber, 2011-09-07 Implementing Models of Financial Derivatives is a comprehensive treatment of advanced implementation techniques in VBA for models of financial derivatives Aimed at readers who are already familiar with the basics of VBA it emphasizes a fully object oriented approach to valuation applications chiefly in the context of Monte Carlo simulation but also more broadly for lattice and PDE methods Its unique approach to valuation emphasizing effective implementation from both the numerical and the computational perspectives makes it an invaluable resource The book comes with a library of almost a hundred Excel spreadsheets containing implementations of all the methods and models it investigates including a large number of useful utility procedures Exercises structured around four application streams supplement the exposition in each chapter taking the reader from basic procedural level programming up to high level object oriented implementations Written in eight parts parts 1 4 emphasize application design in VBA focused around the development of a plain Monte Carlo application Part 5 assesses the performance of VBA for this application and the final 3 emphasize the implementation of a fast and accurate Monte Carlo method for option valuation Key topics include Fully polymorphic factories in VBA Polymorphic input and output using the TextStream and FileSystemObject objects Valuing a book of options Detailed assessment of the performance of VBA data structures Theory implementation and comparison of the main Monte Carlo variance reduction methods Assessment of discretization methods and their application to option

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Professional Financial Computing Using Excel and VBA Humphrey Kwong Kwai Tung, Humphrey K. K. Tung, Donny C. F. Lai, Michael C. S. Wong, 2010-06-15 Professional Financial Computing Using Excel and VBA is an admirable exposition that bridges the theoretical underpinnings of financial engineering and its application which usually appears as a black box software application The book opens the black box and reveals the architecture of risk modeling and financial engineering based on industry standard stochastic models by utilizing Excel and VBA functionality to create a robust and practical modeling tool kit Financial engineering professionals who purchase this book will have a jumpstart advantage for their customized financial engineering and modeling needs Dr Cameron Wicentowich Vice President Treasury Analytics Canadian Imperial Bank of Commerce CIBC Spreadsheet modeling for finance has become a standard course in the curriculum of many Quantitative Finance programs since the Excel based Visual Basic programming is now widely used in constructing optimal portfolios pricing structured products and managing risks Professional Financial Computing Using Excel and VBA is written by a unique team of finance physics and computer academics and practitioners It is a good reference for those who are studying for a Masters degree in Financial Engineering and Risk Management It can also be useful for financial engineers to jump start a project on designing structured products modeling interest term structure or credit risks Dr Jin Zhang Director of Master of Finance Program and Associate Professor The University of Hong Kong Excel has been one of the most powerful tools for financial planning and computing over the last few years Most users utilize a fraction of its capabilities One of the reasons is the limited availability of books that cover the advanced features of Excel for Finance Professional Financial Computing Using Excel and VBA goes the extra mile and deals with the Excel tools many professionals call for This book is a must for professionals or students dealing with financial engineering financial risk management computational finance or mathematical finance I loved the way the authors covered the material using real life hands on examples Dr Isaac Gottlieb Temple University Author Next Generation Excel Modeling in Excel for Analysts and MBAs **Encyclopedia of Financial Models, Volume III** Frank J. Fabozzi, 2012-09-20 Volume 3 of the Encyclopedia of Financial Models The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various

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Languages and Systems in Computational Economics and Finance Søren S. Nielsen, 2002-08-31 The developments within the computationally and numerically oriented areas of Operations Research Finance Statistics and Economics have been significant over the past few decades Each area has been developing its own computer systems and languages that suit its needs but there is relatively little cross fertilization among them yet This volume contains a collection of invited peer reviewed papers that each highlights a particular system language model or paradigm from one of the computational disciplines aimed at researchers and practitioners from the other fields The 15 papers cover a wide range of relevant topics Models and Modelling in Operations Research and Economic Matt Saltzman Pere Gomis Porqueras and Alex Haro Jerome Kruiser Don Shobrys novel High level and Object Oriented approaches to programming Jurgen Doornik Chris Birchenhall Christopher Baum Tim Hultberg through advanced uses of Maple and MATLAB Des Higham and Peter Kloeden Ric Herbert Jerzy Ombach and Jolanta Jarnicka George Lindfield and John Penny and applications and solution of Differential Equations in Finance Peter Honor and Rolf Poulsen Jens Hugger Sasha Cyganowski and Lars Gr 1 4ne Each article is written from a personal explorative perspective that invites the reader to discover new approaches to solving old problems In the longer run it is hoped that this volume will facilitate cross fertilization among the computational fields Encyclopedia of Financial Models Frank J. Fabozzi, 2012-10-15 An essential reference dedicated to a wide array of financial models issues in financial modeling and mathematical and statistical tools for financial modeling The need for serious coverage of financial modeling has never been greater especially with the size diversity and efficiency of modern capital markets With this in mind the Encyclopedia of Financial Models 3 Volume Set has been created to help a broad spectrum of individuals ranging from finance professionals to academics and students understand financial modeling and make use of the various models currently

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Building and Using Dynamic Interest Rate Models Ken O. Kortanek, Vladimir G. Medvedev, 2001-11-28 This book offers a new approach to interest rate and modeling term structure by using models based on optimization of dynamical systems rather than the traditional stochastic differential equation models The authors use dynamic models to estimate the term structure of interest rates and show the reader how to build their own numerical simulations It includes software that will enable readers to simulate the various models covered in the book *Financial Modeling Using Excel and VBA* Chandan Sengupta, 2004-02-26 Reviews all the necessary financial theory and concepts and walks you through a wide range of real world financial models cover The Investor's Guide to Economic Fundamentals John Calverley, 2003 What drives markets During the 1990s Western stock markets enjoyed a long boom while Asian markets slumped Starting in mid 2000 stocks fell back everywhere while property and government bonds surged Whats next Will stocks resume their upward march along with a stronger world economy or will deflation take hold extending the bond rally but hurting stocks and threatening property The Investors Guide to Economic Fundamentals examines key market fundamentals such as interest rates inflation and the business cycle and how they impact on the main areas of investment money markets bonds equities commodities currencies property and emerging markets gives practical advice on how to predict and manage market risk and how to allocate assets for best performance under different market conditions will be beneficial for both the market practitioner and individual investor as well as the MBA student Written by a leading authority in the field this book covers both the theory and practice of this often complicated subject and gives readers both a comprehensive and reliable source of market information John Calverley has performed an invaluable service for investors and all those who wish to understand the relationship between economic

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





















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