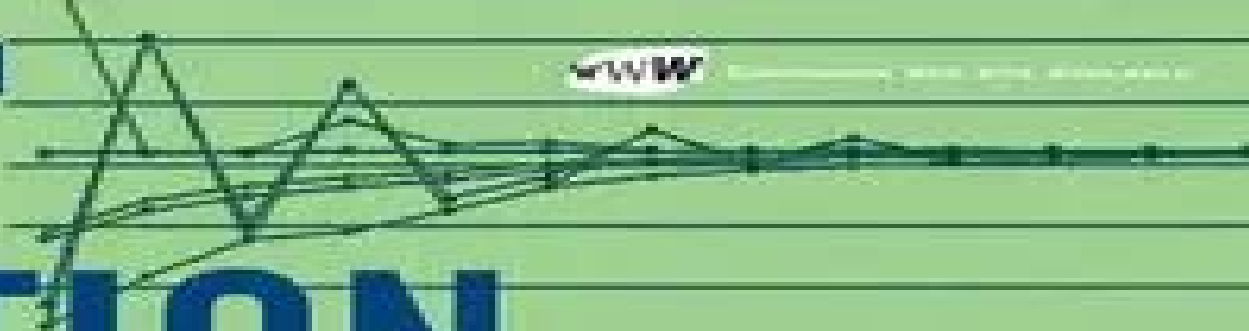


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Financial Analysis and Modeling Using Excel and VBA Chandan Sengupta, 2009-11-09 An updated look at the theory and practice of financial analysis and modeling *Financial Analysis and Modeling Using Excel and VBA* Second Edition presents a comprehensive 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 [American Book Publishing Record](#), 2007

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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 valuation in models like CIR and Heston Fast valuation of Bermudan options by Monte Carlo Fundamental theory and implementations of lattice and PDE methods are presented in appendices and developed through the book in the exercise streams Spanning the two worlds of academic theory and industrial practice this book is not only suitable as a classroom text in VBA in simulation methods and as an introduction to object oriented design it is also a reference for model implementers and quants working alongside derivatives groups Its implementations are a valuable resource for students teachers and developers alike Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Black Scholes and Beyond: Option Pricing Models Neil Chriss,1997 An unprecedented book on option pricing For the first time the basics on modern option pricing are explained from scratch using only minimal mathematics Market practitioners and students alike will learn how and why the Black Scholes equation works and what other new methods have been developed that build on the success of Black Scholes The Cox Ross Rubinstein binomial trees are discussed as well as two recent theories of option pricing the Derman Kani theory on implied volatility trees and Mark Rubinstein s implied binomial trees Black Scholes and Beyond will not only help the reader gain a solid understanding of the Black Scholes formula but will also bring the reader up to date by detailing current theoretical developments from Wall Street Furthermore the author expands upon existing research and adds his own new approaches to modern option pricing theory Among the topics covered in Black Scholes and Beyond detailed discussions of pricing and hedging options volatility smiles and how to price options in the presence of the smile complete explanation on pricing barrier options

Advanced Option Pricing Models Jeffrey Owen Katz,Donna McCormick,2005-03-21 Advanced Option Pricing Models details specific conditions under which current option pricing models fail to provide accurate price estimates and then shows option traders how to construct improved models for better pricing in a wider range of market conditions Model building steps cover options pricing under conditional or marginal distributions using polynomial approximations and curve fitting and compensating for mean reversion The authors also develop effective prototype models that can be put to immediate use with real time examples of the models in action

The Black-Scholes and Beyond Interactive Toolkit Neil Chriss,1997 Introduces implied volatility trees as a new technique for pricing options and provides a

software package that should be comprehensible to anyone with experience or training in such pricing from other sources than this text The text explains such aspects as probability theory lumpy dividends options on futures hedge parameters for European options implied volatility and price barrier options in the presence of the smile The software on 3 5 disks requires Windows 3 1 or 95 at least a 386 computer a math coprocessor chip and at least 8MB of RAM No index or bibliography

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Rouah,2015-03-24 Practical options pricing for better informed investment decisions The Heston Model and Its Extensions in VBA is the definitive guide to options pricing using two of the derivatives industry s most powerful modeling tools the Heston model and VBA Light on theory this extremely useful reference focuses on implementation and can help investors more efficiently and accurately exploit market information to better inform investment decisions Coverage includes a description of the Heston model with specific emphasis on equity options pricing and variance modeling The book focuses not only on the original Heston model but also on the many enhancements and refinements that have been applied to the model including methods that use the Fourier transform numerical integration schemes simulation methods for pricing American options and much more The companion website offers pricing code in VBA that resides in an extensive set of Excel spreadsheets The Heston model is the derivatives industry s most popular stochastic volatility model for pricing equity derivatives This book provides complete guidance toward the successful implementation of this valuable model using the industry s ubiquitous financial modeling software giving users the understanding and VBA code they need to produce option prices that are more accurate and volatility surfaces that more closely reflect market conditions Derivatives pricing is often the hinge on which profit is made or lost in financial institutions making accuracy of utmost importance This book will help risk managers traders portfolio managers quants academics and other professionals better understand the Heston model and its extensions in a writing style that is clear concise transparent and easy to understand For better pricing accuracy The Heston Model and Its Extensions in VBA is a crucial resource for producing more accurate model outputs such as prices hedge ratios volatilities and graphs **Option Pricing Models with Stochastic Volatility and Jumps** Farhan Kalsheker,2009 **Option**

Volatility and Pricing Workbook, Second Edition Sheldon Natenberg,2014-11-28 The Essential Companion to Option Volatility and Pricing Option Volatility and Pricing Workbook explains the key concepts essential to successful trading teaching you how to use a wide variety of trading strategies and how to select the one that best fits your view of market conditions and individual risk tolerance It reflects the most current developments and trends in option products and trading strategies including new information on pricing models intermarket spreading options and volatility analysis Provides step by step guides exercises fill in the blank charts and other hands on activities Sheldon Natenberg has been in charge of the education program at Chicago Trading Company a proprietary derivatives trading firm since 2000 **Option Pricing Models and Volatility Surfaces** Fangjing Duan,2005 This paper examines the time series of DAX index options with an

estimator of the model free implied volatility through an implicit finite difference approach Our results suggest that the model free implied volatility provides an improved test of the information efficiency of the option market The pricing differences between market prices and our results indicate that model we implement seems to overprice out of the money and underprice in the money options prices due to the market effects and theoretical measure errors

FX Options and Smile Risk Antonio Castagna, 2010-02-12 The FX options market represents one of the most liquid and strongly competitive markets in the world and features many technical subtleties that can seriously harm the uninformed and unaware trader This book is a unique guide to running an FX options book from the market maker perspective Striking a balance between mathematical rigour and market practice and written by experienced practitioner Antonio Castagna the book shows readers how to correctly build an entire volatility surface from the market prices of the main structures Starting with the basic conventions related to the main FX deals and the basic traded structures of FX options the book gradually introduces the main tools to cope with the FX volatility risk It then goes on to review the main concepts of option pricing theory and their application within a Black Scholes economy and a stochastic volatility environment The book also introduces models that can be implemented to price and manage FX options before examining the effects of volatility on the profits and losses arising from the hedging activity Coverage includes how the Black Scholes model is used in professional trading activity the most suitable stochastic volatility models sources of profit and loss from the Delta and volatility hedging activity fundamental concepts of smile hedging major market approaches and variations of the Vanna Volga method volatility related Greeks in the Black Scholes model pricing of plain vanilla options digital options barrier options and the less well known exotic options tools for monitoring the main risks of an FX options book The book is accompanied by a CD Rom featuring models in VBA demonstrating many of the approaches described in the book

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