Professional
Financial Computing
Using Excel & VBA

**Humphrey K. K. Tung,
Donny C. F. Lai
and Michael C. S. Wong
with Stephen Ng**

With CD Rom Inside

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adopts a step by step approach to understanding the more sophisticated aspects of Excel macros and VBA programming showing how these programming techniques can be used to model and manipulate financial data as applied to equities bonds and options The book is essential for financial practitioners who need to develop their financial modelling skill sets as there is an increase in the need to analyse and develop ever more complex what if scenarios Specifically applies Excel and VBA to the financial markets Packaged with a CD containing the software from the examples throughout the book Note CD ROM DVD and other supplementary materials are not included as part of eBook file **Financial Applications using Excel Add-in Development in C / C++** Steve Dalton,2007-04-30 Financial Applications using Excel Add in Development in C C is a must buy book for any serious Excel developer Excel is the industry standard for financial modelling providing a number of ways for users to extend the functionality of their own add ins including VBA and C C This is the only complete how to guide and reference book for the creation of high performance add ins for Excel in C and C for users in the finance industry Steve Dalton explains how to apply Excel add ins to financial applications with many examples given throughout the book It also covers the relative strengths and weaknesses of developing add ins for Excel in VBA versus C C and provides comprehensive code workbooks and example projects on the accompanying CD ROM The impact of Excel 2007 s multi threaded workbook calculations and large grids on add in development are fully explored Financial Applications using Excel Add in Development in C C features Extensive example codes in VBA C and C explaining all the ways in which a developer can achieve their objectives Example projects that demonstrate from start to finish the potential of Excel when powerful add ins can be easily developed Develops the readers understanding of the relative strengths and weaknesses of developing add ins for Excel in VBA versus C C A CD ROM with several thousand lines of example code numerous workbooks and a number of complete example projects Structured Finance Modeling with Object-Oriented VBA Evan Tick,2011-07-28 A detailed look at how object oriented VBA should be used to model complex financial structures This guide helps readers overcome the difficult task of modeling complex financial structures and bridges the gap between professional C Java programmers writing production models and front office analysts building Excel spreadsheet models It reveals how to model financial structures using object oriented VBA in an Excel environment allowing desk based analysts to quickly produce flexible and robust models Filled with in depth insight and expert advice it skillfully illustrates the art of object oriented programming for the explicit purpose of modeling structured products Residential mortgage securitization is used as a unifying example throughout the text *Forthcoming Books* Rose Arny,2001 **Financial Simulation Modeling in Excel** Keith A. Allman,Josh Laurito,Michael Loh,2011-09-02 I ve worked with simulation in business for over 20 years and Allman really nails it with this book I admit that I own his previous book on structured finance cash flows but I was surprised by what I found in here He addresses the fundamental questions of how decision makers react to simulations and his read was very much in accordance with what I ve experienced myself When it came to the nuts and bolts of describing the different types of

simulation analysis the book becomes incredibly detailed There is working code and models for a fantastic array of the most common simulation problems If you re so inclined the book very carefully steps through the tricky math needed to really understand the theory behind stochastic modeling in finance If you re preparing models that include any kind of randomization or stochastic modeling component this book is a must read a tremendous value and time saver David Brode of The Brode Group A practical guide to understanding and implementing financial simulation modeling As simulation techniques become more popular among the financial community and a variety of sub industries a thorough understanding of theory and implementation is critical for practitioners involved in portfolio management risk management pricing and capital budgeting Financial Simulation Modeling in Excel contains the information you need to make the most informed decisions possible in your professional endeavors Financial Simulation Modeling in Excel contains a practical hands on approach to learning complex financial simulation methodologies using Excel and VBA as a medium Crafted in an easy to understand format this book is suitable for anyone with a basic understanding of finance and Excel Filled with in depth insights and expert advice each chapter takes you through the theory behind a simulation topic and the implementation of that same topic in Excel VBA in a step by step manner Organized in an easy to follow fashion this guide effectively walks you through the process of creating and implementing risk models in Excel A companion website contains all the Excel models risk experts and quantitative analysts need to practice and confirm their results as they progress Keith Allman is the author of other successful modeling books including Corporate Valuation Modeling and Modeling Structured Finance Cash Flows with Microsoft Excel Created for those with some background in finance and experience in Excel this reliable resource shows you how to effectively perform sound financial simulation modeling even if you ve yet to do extensive modeling up to this point in your professional or academic career **Using Excel for Business and Financial Modelling** Danielle Stein Fairhurst,2019-03-25 A hands on guide to using Excel in the business context First published in 2012 Using Excel for Business and Financial Modelling contains step by step instructions of how to solve common business problems using financial models including downloadable Excel templates a list of shortcuts and tons of practical tips and techniques you can apply straight away Whilst there are many hundreds of tools features and functions in Excel this book focuses on the topics most relevant to finance professionals It covers these features in detail from a practical perspective but also puts them in context by applying them to practical examples in the real world Learn to create financial models to help make business decisions whilst applying modelling best practice methodology tools and techniques Provides the perfect mix of practice and theory Helps you become a DIY Excel modelling specialist Includes updates for Excel 2019 365 and Excel for Mac May be used as an accompaniment to the author s online and face to face training courses Many people are often overwhelmed by the hundreds of tools in Excel and this book gives clarity to the ones you need to know in order to perform your job more efficiently This book also demystifies the technical design logic and financial skills you need for business and financial

modelling **A Fast Track to Structured Finance Modeling, Monitoring, and Valuation** William Preinitz,2009-02-17 This book is designed to start with simple examples that progressively develop the reader s confidence to take on more complex tasks There is very little theoretical discussion about computer science operations research algorithms mathematics or finance The thrust of the book is to teach the reader to break complex tasks down into simple tasks It then looks to implement those simple tasks into VBA code using a critical subset of the features of the language The tentative contents is 1 Why What Who Where and How 2 Common Sense 3 Securitizing A Loan Portfolio 4 Understanding the Excel Waterfall 5 Designing the VBA Model 6 Laying the Model Groundwork 7 Recorded Macros A First Look at the VBA Language 8 Writing Menus An Introduction to Data Ranges Arrays and Objects 9 Controlling the Flow of the Model 10 Building Messaging Capabilities 11 Designing the Model s Reports 12 Main Program and Menus 13 Writing the Collateral Selection Code 14 Calculating the Cash Flows 15 Running the Waterfall Producing Initial Results 16 Debugging the Model 17 Validating the Model 18 Running the Model 19 Building Additional Capabilities 20 Documentation of the Model 21 Managing the Growth of the Model 22 Building Portfolio Monitoring Model 23 Valuation Techniques How do we Determine Price 24 Challenging Times For the Deal 25 Parting Admonitions **Using Excel for Business Analysis** Danielle Stein Fairhurst,2012-07-09 A clear concise and easy to use guide to financial modelling suitable for practitioners at every level Using a fundamental approach to financial modelling that s accessible to both new and experienced professionals Using Excel for Business Analysis A Guide to Financial Modelling Fundamentals Website offers practical guidance for anyone looking to build financial models for business proposals to evaluate opportunities or to craft financial reports Comprehensive in nature the book covers the principles and best practices of financial modelling including the Excel tools formulas and functions to master and the techniques and strategies necessary to eliminate errors As well as explaining the essentials of financial modelling Using Excel for Business Analysis is packed with exercises and case studies to help you practice and test your comprehension and includes additional resources online Provides comprehensive coverage of the principles and best practices of financial modeling including planning how to structure a model layout the anatomy of a good model rebuilding an inherited model and much more Demonstrates the technical Excel tools and techniques needed to build a good model successfully Outlines the skills you need to learn in order to be a good financial modeller such as technical design and business and industry knowledge Illustrates successful best practice modeling techniques such as linking formula consistency formatting and labeling Describes strategies for reducing errors and how to build error checks and other methods to ensure accurate and robust models A practical guide for professionals including those who do not come from a financial background Using Excel for Business Analysis is a fundamentals rich approach to financial modeling **How to Implement Market Models Using VBA** Francois Goossens,2015-01-23 Accessible VBA coding for complex financial modelling How to Implement Market Models Using VBA makes solving complex valuation issues accessible to any financial professional with a taste for

mathematics With a focus on the clarity of code this practical introductory guide includes chapters on VBA fundamentals and essential mathematical techniques helping readers master the numerical methods to build an algorithm that can be used in a wide range of pricing problems Coverage includes general algorithms vanilla instruments multi asset instruments yield curve models interest rate exotics and more guiding readers thoroughly through pricing in the capital markets area The companion website http implementmodinvba com features additional VBA code and algorithmic techniques and the interactive blog provides a forum for discussion of code with programmers and financial engineers giving readers insight into the different applications and customisations possible for even more advanced problem solving Financial engineers implement models from a mathematical representation of an asset s performance by building a program that performs a valuation of securities based on this asset How to Implement Market Models Using VBA makes this technical process understandable with well explained algorithms VBA code and accessible theoretical explanations Decide which numerical method to use in which scenario Identify the necessary building blocks of an algorithm Write clear functional VBA code for a variety of problems Apply algorithms to different instruments and models Designed for finance professionals this book brings more accurate modelling within reach for anyone with interest in the market For clearer code patient explanation and practical instruction How to Implement Market Models Using VBA is an essential introductory guide **Modeling Structured Finance Cash Flows with Microsoft Excel** Keith A. Allman,2010-12-28 A practical guide to building fully operational financial cash flow models for structured finance transactions Structured finance and securitization deals are becoming more commonplace on Wall Street Up until now however market participants have had to create their own models to analyze these deals and new entrants have had to learn as they go Modeling Structured Finance Cash Flows with Microsoft Excel provides readers with the information they need to build a cash flow model for structured finance and securitization deals Financial professional Keith Allman explains individual functions and formulas while also explaining the theory behind the spreadsheets Each chapter begins with a discussion of theory followed by a section called Model Builder in which Allman translates the theory into functions and formulas In addition the companion website features all of the modeling exercises as well as a final version of the model that is created in the text Note Companion website and other supplementary materials are not included as part of eBook file   Mastering Financial Mathematics in Microsoft Excel Alastair L. Day,2010 Mastering Financial Mathematics in Microsoft Excel provides a comprehensive set of tools methods and formulas which apply Excel to solving mathematical problems This fully revised and updated guide is an essential companion for anyone involved in finance from company accountants through to analysts treasury managers and business students Explaining basic calculations and using examples and exercises The book covers Cash flows Bonds calculations and bonds risks Amortization and depreciation Forward interest rates and futures Foreign exchange Valuation Leasing It also Explains basic calculations for mathematical finance Shows how to use formulas using straightforward Excel templates Provides a CD of basic templates   **Using Excel for**

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