

**WILEY FINANCE**

# **STRUCTURED FINANCE MODELING**

**with Object-Oriented VBA**

**EVAN TICK**

# Structured Finance Modeling With Object Oriented Vba

**William Preinitz, Matthew Niedermaier**



## **Structured Finance Modeling With Object Oriented Vba:**

**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

**Securitization and Structured Finance Post Credit Crunch** Markus Krebsz,2011-05-18 In this book you will be introduced to generic best practice principles for a post credit crunch market First the book takes a closer look at the reasons why the market froze during the 2007 to 2009 credit crisis Then you will learn how to use the principles explained here in your generic deal s typical life cycle stages Throughout each stage is discussed in detail from strategy and feasibility pre close at close and post close The final section of the book contains a toolbox of references tables dictionaries and resources

**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

**QFINANCE: The Ultimate Resource, 4th edition** Bloomsbury Publishing,2013-09-26 QFINANCE The Ultimate Resource 4th edition offers both practical and thought provoking articles for the finance practitioner written by leading experts from the markets and academia The coverage is expansive and in depth with key themes which include balance sheets and cash flow regulation investment governance reputation management and Islamic finance encompassed in over 250 best practice and thought leadership articles This edition will also comprise key perspectives on environmental social and governance ESG factors essential for understanding the long term sustainability of a company whether you are an investor or a corporate strategist Also included Checklists more than 250 practical guides and solutions to daily financial challenges Finance Information Sources 200 pages spanning 65

finance areas International Financial Information up to date country and industry data Management Library over 130 summaries of the most popular finance titles Finance Thinkers 50 biographies covering their work and life Quotations and Dictionary *Intermediate Structured Finance Modeling, with Website* William Preinitz,Matthew Niedermaier,2011-02-08 Designed as a hands on guide to help financial analysts with fundamental Excel VBA knowledge to develop greater skills Demonstrates how Access PowerPoint and Outlook can be integrated into a modelling environment and focuses on the design and execution of an Excel VBA user interface Uses a structured finance model case study to demonstrate product integration Includes examples of Access and VBA code Excel menus UserForms financial calculation algorithms and reports NOTE Available as an Ebook *Intermediate Structured Finance Modeling* William Preinitz,Matthew Niedermaier,2010-12-28 This book provides a pragmatic hands on approach to reaching an intermediate level of sophistication as a financial modeler Expanding on the first book *A Fast Tract to Structured Finance Modeling Monitoring and Valuation* the book will guide you step by step through using learned principals in new and more powerful applications These applications will build on the knowledge of Excel and VBA gained expand the use of Access for data management tasks as well as PowerPoint and Outlook for reporting and presentation tasks **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 Securitized 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 *Synthetic CDOs* Craig Mounfield,2009 Details the latest models and techniques in quantitative and computational modelling of synthetic Collateralised Debt Obligations *QFinance* ,2009-10-13 Compiled by more than 300 of the world s leading professionals visionaries writers and educators this is THE first stop reference resource and knowledge base for finance QFINANCE covers an extensive range of finance topics with unique insight authoritative information practical guidance and thought provoking wisdom Unmatched for in depth content QFINANCE contains more than 2 million words of text data analysis critical summaries and bonus online

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*Structured Finance* Umberto Cherubini, Giovanni Della Lunga, 2007-04-30 Structured Finance The Object Orientated Approach is aimed at both the finance and IT professionals involved in the structured finance business with the intention of sharing common concepts and language within the industry The financial community structurers pricers and risk managers view structured products as collections of objects under the so called replicating portfolio paradigm The IT community use object oriented programming OOP techniques to improve the software updating and maintenance process For them structured products are collections of objects as well Despite use of the same object concept it looks like communication between these different professional functions has been problematic Recently construction of standard data structures known as FpML has begun to lay out a common definition of objects at least for plain vanilla derivatives both between IT and financial people and across different market players Along this line this book builds upon the concept of object to provide frontier treatment of structured finance issues relevant to both communities engaged in building pricing and hedging products and people engaged in designing and up dating the corresponding software Structured Finance The Object Orientated Approach will enable you to decompose a structured product in elementary constituent financial objects and risk factors replicating portfolio understand the basics of object oriented programming OOP applied to the design of structured cash flows objects build your own objects and to understand FpML data structures available for standard products gauge risk exposures of the objects in structured products

to risk factors their volatilities and the correlation among them which factor are you long short Are you long short volatility Are you long short correlation update your risk management system to accommodate structured products with non linear exposures and to design objects to represent price and hedge counterparty risk [American Book Publishing Record](#) ,2007

**The British National Bibliography** Arthur James Wells,2009 *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 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 *Data Sources* ,2000 **Consultants & Consulting Organizations Directory** ,2000 [Outlines and Highlights for a Fast-Track to Structured Finance](#) Cram101 Textbook Reviews,2011-07-01 Never HIGHLIGHT a Book Again Virtually all testable terms concepts persons places and events are included Cram101 Textbook Outlines gives all of the outlines highlights notes for your textbook with optional online practice tests Only Cram101 Outlines are Textbook Specific Cram101 is NOT the Textbook Accompanys 9780470398128 [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 [Modeling and Analysis of Structured Finance Products](#) Florian Kramer,2008 **The Handbook of Structured Finance, Chapter 4 - Modeling Credit Dependency** Arnaud de Servigny,Norbert Jobst,2007-01-22 This chapter comes from the book The Handbook of Structured Finance a complete guide to the major issues facing investors in the structured finance market Comprehensive and accessible it provides the latest techniques for measuring and managing risk finding optimum pricing and taking advantage of leverage and market incompleteness as well as models for debt and equity modeling [Structured Finance](#) Stefano Caselli,Stefano Gatti,2005-06-23 First comprehensive book on all structured finance products Complete information on technical features roles played by intermediaries market in terms of demand and offer Clear structure of the book makes it suitable as a textbook for students and as a reference book for practitioners

## The Enigmatic Realm of **Structured Finance Modeling With Object Oriented Vba**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Structured Finance Modeling With Object Oriented Vba** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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