

THE FRANK R. KRAUS SERIES

INTEREST RATE TERM STRUCTURE AND VALUATION MODELING

FRANK R. KRAUS



FRANK R. KRAUS, *Professor of Finance, University of California, San Diego*

Interest Rate Term Structure And Valuation Modeling

Robert J. Shiller



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Lee, 2004-01-15 The essential premise of this book is that theory and practice are equally important in describing financial

modeling In it the authors try to strike a balance in their discussions between theories that provide foundations for financial models and the institutional details that provide the context for applications of the models The book presents the financial models of stock and bond options exotic options investment grade and high yield bonds convertible bonds mortgage backed securities liabilities of financial institutions the business model and the corporate model It also describes the applications of the models to corporate finance Furthermore it relates the models to financial statements risk management for an enterprise and asset liability management with illiquid instruments The financial models are progressively presented from option pricing in the securities markets to firm valuation in corporate finance following a format to emphasize the three aspects of a model the set of assumptions the model specification and the model applications Generally financial modeling books segment the world of finance as investments financial institutions corporate finance and securities analysis and in so doing they rarely emphasize the relationships between the subjects This unique book successfully ties the thought processes and applications of the financial models together and describes them as one process that provides business solutions Created as a companion website to the book readers can visit www.thomasho.com to gain deeper understanding of the book's financial models Interested readers can build and test the models described in the book using Excel and they can submit their models to the site Readers can also use the site's forum to discuss the models and can browse server based models to gain insights into the applications of the models For those using the book in meetings or class settings the site provides Power Point descriptions of the chapters Students can use available question banks on the chapters for studying

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Nassim Nicholas Taleb author *Dynamic Hedging* and *The Black Swan* Nawalkha Beliaeva and Soto have put together a comprehensive up to date textbook on modern dynamic term structure modeling It is both accessible and rigorous and should be of tremendous interest to anyone who wants to learn about state of the art fixed income modeling It provides many numerical examples that will be valuable to readers interested in the practical implementations of these models Pierre Collin Dufresne Associate Professor of Finance UC Berkeley The book provides a comprehensive description of the continuous time interest rate models It serves an important part of the trilogy useful for financial engineers to grasp the theoretical underpinnings and the practical implementation Thomas S Y Ho PHD President Thomas Ho Company Ltd coauthor *The Oxford Guide to Financial Modeling* **Encyclopedia of Finance** Cheng-Few Lee, Alice C. Lee, 2022-09-12 The *Encyclopedia of Finance* comprehensively covers the broad spectrum of terms and topics relating finance from asset pricing models to option pricing models to risk management and beyond This third edition is comprised of over 1 300 individual definitions chapters appendices and is the most comprehensive and up to date resource in the field integrating the most current terminology research theory and practical applications It includes 200 new terms and essays 25 new chapters and four new appendices Showcasing contributions from an international array of experts the revised edition of this major reference work is unparalleled in the breadth and depth of its coverage *Financial Modeling, Actuarial Valuation and Solvency in Insurance* Mario V. Wüthrich, Michael Merz, 2013-04-04 Risk management for financial institutions is one of the key topics the financial industry has to deal with The present volume is a mathematically rigorous text on solvency modeling Currently there are many new developments in this area in the financial and insurance industry Basel III and Solvency II but none of these developments provides a fully consistent and comprehensive framework for the analysis of solvency questions Merz and Wüthrich combine ideas from financial mathematics no arbitrage theory equivalent martingale measure actuarial sciences insurance claims modeling cash flow valuation and economic theory risk aversion probability distortion to provide a fully consistent framework Within this framework they then study solvency questions in incomplete markets analyze hedging risks and study asset and liability management questions as well as issues like the limited liability options dividend to shareholder questions the role of re insurance etc This work embeds the solvency discussion and long term liabilities into a scientific framework and is intended for researchers as well as practitioners in the financial and actuarial industry especially those in charge of internal risk management systems Readers should have a good background in probability theory and statistics and should be familiar with popular distributions stochastic processes martingales etc *Mortgage Valuation Models* Andrew S. Davidson, 2014 Valuation of mortgage backed securities requires blending empirical analysis of borrower behavior and mathematical modeling of interest rates and home prices with recognition of various prices of risk and uncertainty This book offers a detailed description of the sophisticated theories and advanced methods used for the real world valuation of MBS *Encyclopedia of Financial Models, Volume II* Frank J. Fabozzi, 2012-09-12 Volume 2 of the

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help put them in perspective **Market Volatility** Robert J. Shiller, 1992-01-30 Market Volatility proposes an innovative theory backed by substantial statistical evidence on the causes of price fluctuations in speculative markets It challenges the standard efficient markets model for explaining asset prices by emphasizing the significant role that popular opinion or psychology can play in price volatility Why does the stock market crash from time to time Why does real estate go in and out of booms Why do long term borrowing rates suddenly make surprising shifts Market Volatility represents a culmination of Shiller s research on these questions over the last dozen years It contains reprints of major papers with new interpretive material for those unfamiliar with the issues new papers new surveys of relevant literature responses to critics data sets and reframing of basic conclusions Included is work authored jointly with John Y Campbell Karl E Case Sanford J Grossman and Jeremy J Siegel Market Volatility sets out basic issues relevant to all markets in which prices make movements for speculative reasons and offers detailed analyses of the stock market the bond market and the real estate market It pursues the relations of these speculative prices and extends the analysis of speculative markets to macroeconomic activity in general In studies of the October 1987 stock market crash and boom and post boom housing markets Market Volatility reports on research directly aimed at collecting information about popular models and interpreting the consequences of belief in those models Shiller asserts that popular models cause people to react incorrectly to economic data and believes that changing popular models themselves contribute significantly to price movements bearing no relation to fundamental shocks

Financial Derivatives Jamil Baz, George Chacko, 2004-01-12 This book offers a complete succinct account of the principles of financial derivatives pricing The first chapter provides readers with an intuitive exposition of basic random calculus Concepts such as volatility and time random walks geometric Brownian motion and Ito s lemma are discussed heuristically The second chapter develops generic pricing techniques for assets and derivatives determining the notion of a stochastic discount factor or pricing kernel and then uses this concept to price conventional and exotic derivatives The third chapter applies the pricing concepts to the special case of interest rate markets namely bonds and swaps and discusses factor models and term structure consistent models The fourth chapter deals with a variety of mathematical topics that underlie derivatives pricing and portfolio allocation decisions such as mean reverting processes and jump processes and discusses related tools of stochastic calculus such as Kolmogorov equations martingale techniques stochastic control and partial differential equations

Credit Risk Management Jiří Witzany, 2017-02-24 This book introduces to basic and advanced methods for credit risk management It covers classical debt instruments and modern financial markets products The author describes not only standard rating and scoring methods like Classification Trees or Logistic Regression but also less known models that are subject of ongoing research like e g Support Vector Machines Neural Networks or Fuzzy Inference Systems The book also illustrates financial and commodity markets and analyzes the principles of advanced credit risk modeling techniques and credit derivatives pricing methods Particular attention is given to the challenges of counterparty risk management Credit

Valuation Adjustment CVA and the related regulatory Basel III requirements As a conclusion the book provides the reader with all the essential aspects of classical and modern credit risk management and modeling Bond Markets, Analysis, and Strategies, tenth edition Frank J. Fabozzi, Francesco A. Fabozzi, 2021-12-07 The updated edition of a widely used textbook that covers fundamental features of bonds analytical techniques and portfolio strategy This new edition of a widely used textbook covers types of bonds and their key features analytical techniques for valuing bonds and quantifying their exposure to changes in interest rates and portfolio strategies for achieving a client's objectives It includes real world examples and practical applications of principles as provided by third party commercial vendors This tenth edition has been substantially updated with two new chapters covering the theory and history of interest rates and the issues associated with bond trading Although all chapters have been updated particularly those covering structured products the chapters on international bonds and managing a corporate bond portfolio have been completely revised The book covers the basic analytical framework necessary to understand the pricing of bonds and their investment characteristics sectors of the debt market including Treasury securities corporate bonds municipal bonds and structured products residential and commercial mortgage backed securities and asset backed securities collective investment vehicles methodologies for valuing bonds and derivatives corporate bond credit risk portfolio management including the fundamental and quantitative approaches and instruments that can be used to control portfolio risk

Martingale Methods in Financial Modelling Marek Musiela, 2013-06-29 The origin of this book can be traced to courses on financial mathematics taught by us at the University of New South Wales in Sydney Warsaw University of Technology Politechnika Warszawska and Institut National Polytechnique de Grenoble Our initial aim was to write a short text around the material used in two one semester graduate courses attended by students with diverse disciplinary backgrounds mathematics physics computer science engineering economics and commerce The anticipated diversity of potential readers explains the somewhat unusual way in which the book is written It starts at a very elementary mathematical level and does not assume any prior knowledge of financial markets Later it develops into a text which requires some familiarity with concepts of stochastic calculus the basic relevant notions and results are collected in the appendix Over time what was meant to be a short text acquired a life of its own and started to grow The final version can be used as a textbook for three one semester courses one at undergraduate level the other two as graduate courses The first part of the book deals with the more classical concepts and results of arbitrage pricing theory developed over the last thirty years and currently widely applied in financial markets The second part devoted to interest rate modelling is more subjective and thus less standard A concise survey of short term interest rate models is presented However the special emphasis is put on recently developed models built upon market interest rates

Collateralized Mortgage Obligations Frank J. Fabozzi, Chuck Ramsey, 1999-07-15 Financial experts Chuck Ramsey and Frank Ramirez join Frank Fabozzi for the third edition of *Collateralized Mortgage Obligations* Structure whole loan CMO structures and accounting for CMO investments

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