Problems And Solutions In Mathematical Finance Interest Rates And Inflation Indexed Derivatives The Wiley Finance Series

Tariq Alrifai

Problems and Solutions in Mathematical Finance, Volume 2 Eric Chin,Dian Nel,Sverrir Ólafsson,2017-03-13 Detailed guidance on the mathematics behind equity derivatives Problems and Solutions in Mathematical Finance Volume II is an innovative reference for quantitative practitioners and students, providing guidance through a range of mathematical problems encountered in the finance industry. This volume focuses solely on equity derivatives problems, beginning with basic problems in derivatives securities before moving on to more advanced applications, including the construction of volatility surfaces to price exotic options. By providing a methodology for solving theoretical and practical problems, whilst explaining the limitations of financial models, this book helps readers to develop the skills they need to advance their careers. The text covers a wide range of derivatives pricing, such as European, American, Asian, Barrier and other exotic options. Extensive appendices provide a summary of important formulae from calculus, theory of probability, and differential equations, for the convenience of readers. As Volume II of the four-volume Problems and Solutions in Mathematical Finance series, this book provides clear explanation of the mathematics behind equity derivatives, in order to help readers gain a deeper understanding of their mechanics and a firmer grasp of the calculations. Review the fundamentals of equity derivatives Work through problems from basic securities to advanced exotics pricing Examine numerical methods and detailed derivations of closed-form solutions Utilise formulae for probability, differential equations, and more Mathematical finance relies on mathematical models, numerical methods, computational algorithms and simulations to make trading, hedging, and investment decisions. For the practitioners and graduate students of quantitative finance, Problems and Solutions in Mathematical Finance Volume II provides essential guidance principally towards the subject of equity derivatives.

Interest Rate Models - Theory and Practice Damiano Brigo,Fabio Mercurio,2007-09-26 The 2nd edition of this successful book has several new features. The calibration discussion of the basic LIBOR market model has been enriched considerably, with an analysis of the impact of the swaptions interpolation technique and of the exogenous instantaneous correlation on the calibration outputs. A discussion of historical estimation of the instantaneous correlation matrix and of rank reduction has been added, and a LIBOR-model consistent swaption-volatility interpolation technique has been introduced. The old sections devoted to the smile issue in the LIBOR market model have been enlarged into a new chapter. New sections on local-volatility dynamics, and on stochastic volatility models have been added, with a thorough treatment of the recently developed uncertain-volatility approach. Examples of calibrations to real market data are now considered. The fast-growing interest for hybrid products has led to a new chapter. A special focus here is devoted to the pricing of inflation-linked derivatives. The three final new chapters of this second edition are devoted to credit. Since Credit Derivatives are increasingly fundamental, and since in the reduced-form modeling framework much of the technique involved is analogous to interest-rate modeling, Credit Derivatives -- mostly Credit Default Swaps (CDS), CDS Options and Constant Maturity CDS - are discussed, building on the basic short rate-models and market models introduced earlier for the default-free market. Counterparty risk in interest rate payoff valuation is also considered, motivated by the recent Basel II framework developments.

Problems and Solutions in Mathematical Finance, Volume 2 Eric Chin,Dian Nel,Sverrir lafsson,2017-01-04 Detailed guidance on the mathematics behind equity derivatives Problems and Solutions in Mathematical Finance Volume II is an innovative reference for quantitative practitioners and students, providing guidance through a range of mathematical problems encountered in the finance industry. This volume focuses solely on equity derivatives problems, beginning with basic problems in derivatives securities before moving on to more advanced applications, including the construction of volatility surfaces to price exotic options. By providing a methodology for solving theoretical and practical problems, whilst explaining the limitations of financial models, this book helps readers to develop the skills they need to advance their careers. The text covers a wide range of derivatives pricing, such as European, American, Asian, Barrier and other exotic options. Extensive appendices provide a summary of important formulae from calculus, theory of probability, and differential equations, for the convenience of readers. As Volume II of the four-volume Problems and Solutions in Mathematical Finance series, this book provides clear explanation of the mathematics behind equity derivatives, in order to help readers gain a deeper understanding of their mechanics and a firmer grasp of the calculations. Review the fundamentals of equity derivatives Work through problems from basic securities to advanced exotics pricing Examine numerical methods and detailed derivations of closed-form solutions Utilise formulae for probability, differential equations, and more Mathematical finance relies on mathematical models, numerical methods, computational algorithms and simulations to make trading, hedging, and investment decisions. For the practitioners and graduate students of quantitative finance, Problems and Solutions in Mathematical Finance Volume II provides essential guidance principally towards the subject of equity derivatives.

Exotic Options and Hybrids Mohamed Bouzoubaa,Adel Osseiran,2010-05-17 The recent financial crisis brought to light many of the misunderstandings and misuses of exotic derivatives. With market participants on both the buy and sell-side having been found guilty of not understanding the products they were dealing with, never before has there been a greater need for clarification and explanation. Exotic Options and Hybrids is a practical guide to structuring, pricing and hedging complex exotic options and hybrid derivatives that will serve readers through the recent crisis, the road to recovery, the next bull market and beyond. Written by experienced practitioners, it focuses on the three main parts of a derivative’s life: the structuring of a product, its pricing and its hedging. Divided into four parts, the book covers a multitude of structures, encompassing many of the most up-to-date and promising products from exotic equity derivatives and structured notes to hybrid derivatives and dynamic strategies. Based on a realistic setting from the heart of the business, inside a derivatives operation, the practical and intuitive discussions of these aspects make these exotic concepts truly accessible. Adoptions of real trades are examined in detail, and all of the numerous examples are carefully selected so as to highlight interesting and significant aspects of the business. The introduction of payoff structures is accompanied by scenario analysis, diagrams and lifelike sample term sheets. Readers learn how to spot where the risks lie to pave the way for sound valuation and hedging of such products. There are also questions and accompanying discussions dispersed in the text, each exploited to illustrate one or more concepts from the context in which they are set. The applications, the strengths and the limitations of various models are highlighted, in relevance to the products and their risks, rather than the model implementations. Models are de-mystified in separately dedicated sections, but their implications are alluded to throughout the book in an intuitive and non-mathematical manner. By discussing exotic options and hybrids in a practical, non-mathematical and highly intuitive setting, this book will blast through the misunderstanding of exotic derivatives, enabling practitioners to fully understand and correctly structure, price and hedge theses products effectively, and stand strong as the only book in its class to make these “exotic” concepts truly accessible.

Trading the Fixed Income, Inflation and Credit Markets Neil C. Schofield,Troy Bowler,2011-10-03 Trading the Fixed Income, Inflation and Credit Markets is a comprehensive guide to the most popular strategies that are used in the wholesale financial markets, answering the question: what is the optimal way to express a view on expected market movements? This relatively unique approach to relative value highlights the pricing links between the different products and how these relationships can be used as the basis for a number of trading strategies. The book begins by looking at the main derivative products and their pricing interrelationships. It shows that within any asset class there are mathematical relationships that tie together four key building blocks: cash products, forwards/futures, swaps and options. The nature of these interrelationships means that there may be a variety of different ways in which a particular strategy can be expressed. It then moves on to relative value within a fixed income context and looks at strategies that build on the pricing relationships between products as well as those that focus on how to identify the optimal way to express a view on the movement of the yield curve. It concludes by taking the main themes of relative value and showing how they can be applied within other asset classes. Although the main focus is fixed income the book does cover multiple asset classes including credit and inflation. Written from a practitioner's perspective, the book illustrates how the products are used by including many worked examples and a number of screenshots to ensure that the content is as practical and applied as possible.

Problems and Solutions in Mathematical Finance, Volume 4 Eric Chin,Sverrir Ólafsson,Dian Nel,2024-09-30 A practical problem solving reference for commodity and Forex derivatives Problems and Solutions in Mathematical Finance provides an innovative reference for quantitative finance students and practitioners. Using a unique problem-solving approach, this invaluable guide bridges the gap between the theoretical and practical to impart a deeper understanding of the mathematical problems encountered in the finance industry. Volume IV: Commodity and Foreign Exchange Derivatives breaks down the complexity of the topic by walking you step-by-step through a variety of modelling problems. Building skill upon skill, you'll work through a series of problems of increasing difficulty as you learn both the strategy and mechanics behind each solution. Coverage includes both theoretical and real-world problems, using stochastic calculus, probability theory and statistics, as well as an assumed understanding of exotic option and interest rate models covered in volumes II and III. Financial institutions rely on quantitative analysis to inform decision making on trading, hedging, investing, risk management and pricing. This book provides both instruction and reference from a highly practical perspective, giving you a highly applicable real-world skillset. Fully grasp the fundamentals of commodity and foreign exchange derivatives Follow mathematical modelling processes step-by-step Link theory to real-world problems through guided problem-solving Test your knowledge and skills with increasingly complex problem sets Commodity and Foreign Exchange Derivatives are a complex, nuanced area in the quantitative finance realm. Simply reading about these instruments fails to convey the level of understanding required to work with them; in the real-world, quants draw upon an in-depth knowledge of both finance and mathematics every day. Problems and Solutions in Mathematical Finance provides practical reference and problem-solving skills for anyone learning or working in quantitative finance.

Real Estate Investment and Finance David Hartzell,Andrew E. Baum,2020-10-28 The fully revised and updated version of the leading textbook on real estate investment, emphasising real estate cycles and the availability and flow of global capital Real Estate Investment remains the most influential textbook on the subject, used in top-tier colleges and universities worldwide. Its unique, practical perspective on international real estate investment focusses on real-world techniques which measure, benchmark, forecast and manage property investments as an asset class. The text examines global property markets and real estate cycles, outlines market fundamentals and explains asset pricing and portfolio theory in the context of real estate. In the years since the text's first publication, conditions in global real estate markets have changed considerably following the financial crisis of 2008-2009. Real estate asset prices have increased past pre-crisis levels, signalling a general market recovery. Previously scarce debt and equity capital is now abundant, while many institutions once averse to acquiring property are re-entering the markets. The latest edition – extensively revised and updated to address current market trends and practices as well as reflect feedback from instructors and students – features new content on real estate development, improved practical examples, expanded case studies and more. This seminal textbook: Emphasises practical solutions to real investing problems rather than complex theory Offers substantial new and revised content throughout the text Covers topics such as valuation, leasing, mortgages, real estate funds, underwriting and private and public equity real estate Features up-to-date sections on performance measurement, real estate debt markets and building and managing real estate portfolios Includes access to a re-designed companion website containing numerous problems and solutions, presentation slides and additional instructor and student resources Written by internationally-recognised experts in capital management and institutional property investing strategies, Real Estate Investment, Second Edition: Strategies, Structures, Decisions is an indispensable textbook for instructors and students of real estate fund management, investment management and investment banking, as well as a valuable reference text for analysts, researchers, investment managers, investment bankers and asset managers.

Problems and Solutions in Mathematical Finance, Volume 3 Eric Chin,Sverrir Ólafsson,Dian Nel,2023-05-30 Your complete guide to mastering basic and advanced techniques for interest rate derivative modeling and pricing Interest rate trading constitutes the largest sector of the world derivatives market. Interest rate contracts are a much valued risk management tool used by the majority of the world's largest companies. But interest rate derivative modeling and pricing are extremely challenging tasks, requiring a thorough knowledge and practical expertise in advanced discrete and continuous mathematical modeling methods–practical knowledge which can only be gained through extensive problem solving and the application of contemporary interest rate tools and models to an array of market scenarios. Authored by a distinguished team of quantitative analysts with extensive experience in the field, this second volume in the landmark Problems and Solutions in Mathematical Finance offers you a quick, painless way to acquire that knowledge and expertise. The only book offering a problems-and-solutions approach to teaching interest rate and inflation index derivatives modelling Walks you step-by-step through the theoretical aspects of interest rate and inflation indexed derivatives as well as broad range real-world problems Extremely practical, it bridges the gap between mathematical theory and the everyday reality of the financial markets An ideal text for quantitative finance students and an essential go-to resource for busy practitioners looking to refresh their knowledge and enhance their practical expertise

Understanding Bitcoin Pedro Franco,2014-10-21 Discover Bitcoin, the cryptocurrency that has the finance world buzzing Bitcoin is arguably one of the biggest developments in finance since the advent of fiat currency. With Understanding Bitcoin, expert author Pedro Franco provides finance professionals with a complete technical guide and resource to the cryptography, engineering and economic development of Bitcoin and other cryptocurrencies. This comprehensive, yet accessible work fully explores the supporting economic realities and technological advances of Bitcoin, and presents positive and negative arguments from various economic schools regarding its continued viability. This authoritative text provides a step-by-step description of how Bitcoin works, starting with public key cryptography and moving on to explain transaction processing, the blockchain and mining technologies. This vital resource reviews Bitcoin from the broader perspective of digital currencies and explores historical attempts at cryptographic currencies. Bitcoin is, after all, not just a digital currency; it's a modern approach to the secure transfer of value using cryptography. This book is a detailed guide to what it is, how it works, and how it just may jumpstart a change in the way digital value changes hands. Understand how Bitcoin works, and the technology behind it Delve into the economics of Bitcoin, and its impact on the financial industry Discover alt-coins and other available cryptocurrencies Explore the ideas behind Bitcoin 2.0 technologies Learn transaction protocols, micropayment channels, atomic cross-chain trading, and more Bitcoin challenges the basic assumption under which the current financial system rests: that currencies are issued by central governments, and their supply is managed by central banks. To fully understand this revolutionary technology, Understanding Bitcoin is a uniquely complete, reader-friendly guide.

Handbook of Fixed-Income Securities Pietro Veronesi,2016-04-04 A comprehensive guide to the current theories and methodologies intrinsic to fixed-income securities Written by well-known experts from a cross section of academia and finance, Handbook of Fixed-Income Securities features a compilation of the most up-to-date fixed-income securities techniques and methods. The book presents crucial topics of fixed income in an accessible and logical format. Emphasizing empirical research and real-life applications, the book explores a wide range of topics from the risk and return of fixed-income investments, to the impact of monetary policy on interest rates, to the post-crisis new regulatory landscape. Well organized to cover critical topics in fixed income, Handbook of Fixed-Income Securities is divided into eight main sections that feature: • An introduction to fixed-income markets such as Treasury bonds, inflation-protected securities, money markets, mortgage-backed securities, and the basic analytics that characterize them • Monetary policy and fixed-income markets, which highlight the recent empirical evidence on the central banks’ influence on interest rates, including the recent quantitative easing experiments • Interest rate risk measurement and management with a special focus on the most recent techniques and methodologies for asset-liability management under regulatory constraints • The predictability of bond returns with a critical discussion of the empirical evidence on time-varying bond risk premia, both in the United States and abroad, and their sources, such as liquidity and volatility • Advanced topics, with a focus on the most recent research on term structure models and econometrics, the dynamics of bond illiquidity, and the puzzling dynamics of stocks and bonds • Derivatives markets, including a detailed discussion of the new regulatory landscape after the financial crisis and an introduction to no-arbitrage derivatives pricing • Further topics on derivatives pricing that cover modern valuation techniques, such as Monte Carlo simulations, volatility surfaces, and no-arbitrage pricing with regulatory constraints • Corporate and sovereign bonds with a detailed discussion of the tools required to analyze default risk, the relevant empirical evidence, and a special focus on the recent sovereign crises A complete reference for practitioners in the fields of finance, business, applied statistics, econometrics, and engineering, Handbook of Fixed-Income Securities is also a useful supplementary textbook for graduate and MBA-level courses on fixed-income securities, risk management, volatility, bonds, derivatives, and financial markets. Pietro Veronesi, PhD, is Roman Family Professor of Finance at the University of Chicago Booth School of Business, where he teaches Masters and PhD-level courses in fixed income, risk management, and asset pricing. Published in leading academic journals and honored by numerous awards, his research focuses on stock and bond valuation, return predictability, bubbles and crashes, and the relation between asset prices and government policies.

Mathematical Finance M. J. Alhabeeb,2012-07-31 An introduction to the mathematical skills needed to understand finance and make better financial decisions Mathematical Finance enables readers to develop the mathematical skills needed to better understand and solve financial problems that arise in business, from small entrepreneurial operations to large corporations, and to also make better personal financial decisions. Despite the availability of automated tools to perform financial calculations, the author demonstrates that a basic grasp of the underlying mathematical formulas and tables is essential to truly understand finance. The book begins with an introduction to the most fundamental mathematical concepts, including numbers, exponents, and logarithms; mathematical progressions; and statistical measures. Next, the author explores the mathematics of the time value of money through a discussion of simple interest, bank discount, compound interest, and annuities. Subsequent chapters explore the mathematical aspects of various financial scenarios, including: Mortgage debt, leasing, and credit and loans Capital budgeting, depreciation, and depletion Break-even analysis and leverage Investing, with coverage of stocks, bonds, mutual funds, options, cost of capital, and ratio analysis Return and risk, along with a discussion of the Capital Asset Pricing Model (CAPM) Life annuities as well as life, property, and casualty insurance Throughout the book, numerous examples and exercises present realistic financial scenarios that aid readers in applying their newfound mathematical skills to devise solutions. The author does not promote the use of financial calculators and computers, but rather guides readers through problem solving using formulas and tables with little emphasis on derivations and proofs. Extensively class-tested to ensure an easy-to-follow presentation, Mathematical Finance is an excellent book for courses in business, economics, and mathematics of finance at the upper-undergraduate and graduate levels. The book is also appropriate for consumers and entrepreneurs who need to build their mathematical skills in order to better understand financial problems and make better financial choices.

Bond Math Donald J. Smith,2011-07-05 A guide to the theory behind bond math formulas Bond Math explores the ideas and assumptions behind commonly used statistics on risk and return for individual bonds and on fixed income portfolios. But this book is much more than a series of formulas and calculations; the emphasis is on how to think about and use bond math. Author Donald J. Smith, a professor at Boston University and an experienced executive trainer, covers in detail money market rates, periodicity conversions, bond yields to maturity and horizon yields, the implied probability of default, after-tax rates of return, implied forward and spot rates, and duration and convexity. These calculations are used on traditional fixed-rate and zero-coupon bonds, as well as floating-rate notes, inflation-indexed securities, and interest rate swaps. Puts bond math in perspective through discussions of bond portfolios and investment strategies. Critiques the Bloomberg Yield Analysis (YA) page, indicating which numbers provide reliable information for making decisions about bonds, which are meaningless data, and which can be very misleading to investors Filled with thought-provoking insights and practical advice, this book puts the intricacies of bond math into a clear and logical order.

Financial Modeling Stephane Crepey,2013-06-13 Backward stochastic differential equations (BSDEs) provide a general mathematical framework for solving pricing and risk management questions of financial derivatives. They are of growing importance for nonlinear pricing problems such as CVA computations that have been developed since the crisis. Although BSDEs are well known to academics, they are less familiar to practitioners in the financial industry. In order to fill this gap, this book revisits financial modeling and computational finance from a BSDE perspective, presenting a unified view of the pricing and hedging theory across all asset classes. It also contains a review of quantitative finance tools, including Fourier techniques, Monte Carlo methods, finite differences and model calibration schemes. With a view to use in graduate courses in computational finance and financial modeling, corrected problem sets and Matlab sheets have been provided. Stéphane Crépey’s book starts with a few chapters on classical stochastic processes material, and then... fasten your seatbelt... the author starts traveling backwards in time through backward stochastic differential equations (BSDEs). This does not mean that one has to read the book backwards, like a manga! Rather, the possibility to move backwards in time, even if from a variety of final scenarios following a probability law, opens a multitude of possibilities for all those pricing problems whose solution is not a straightforward expectation. For example, this allows for framing problems like pricing with credit and funding costs in a rigorous mathematical setup. This is, as far as I know, the first book written for several levels of audiences, with applications to financial modeling and using BSDEs as one of the main tools, and as the song says: it's never as good as the first time. Damiano Brigo, Chair of Mathematical Finance, Imperial College London While the classical theory of arbitrage free pricing has matured, and is now well understood and used by the finance industry, the theory of BSDEs continues to enjoy a rapid growth and remains a domain restricted to academic researchers and a handful of practitioners.

Crépey’s book presents this novel approach to a wider community of researchers involved in mathematical modeling in finance. It is clearly an essential reference for anyone interested in the latest developments in financial mathematics. Marek Musiela, Deputy Director of the Oxford-Man Institute of Quantitative Finance

Business Cycles and Equilibrium Fischer Black,2009-11-02 An updated look at what Fischer Black's ideas on business cycles and equilibrium mean today Throughout his career, Fischer Black described a view of business fluctuations based on the idea that a well-developed economy will be continually in equilibrium. In the essays that constitute this book, which is one of only two books Black ever wrote, he explores this idea thoroughly and reaches some surprising conclusions. With the newfound popularity of quantitative finance and risk management, the work of Fischer Black has garnered much attention. Business Cycles and Equilibrium-with its theory that economic and financial markets are in a continual equilibrium-is one of his books that still rings true today, given the current economic crisis. This Updated Edition clearly presents Black's classic theory on business cycles and the concept of equilibrium, and contains a new introduction by the person who knows Black best: Perry Mehrling, author of Fischer Black and the Revolutionary Idea of Finance (Wiley). Mehrling goes inside Black's life to uncover what was occurring during the time Black wrote Business Cycles and Equilibrium, while also shedding light on what Black would make of today's financial and economic meltdown and how he would best advise to move forward. The essays within this book reach some interesting conclusions concerning the role of equilibrium in a developed economy Warns about the use and abuse of modeling Explains the risky business of risk in a straightforward and accessible style Contains chapters dedicated to the effects of uncontrolled banking, the trouble with econometric models, and the effects of noise on investing Includes commentary on Black's life and work at the time Business Cycles and Equilibrium was written as well as insight as to what Black would make of the current financial meltdown Engaging and informative, the Updated Edition of Business Cycles and Equilibrium will give you a better understanding of what is really going on during these uncertain and volatile financial times.

A History of the Theory of Investments Mark Rubinstein,2011-09-02 This exceptional book provides valuable insights into the evolution of financial economics from the perspective of a major player. -- Robert Litzenberger, Hopkinson Professor Emeritus of Investment Banking, Univ. of Pennsylvania; and retired partner, Goldman Sachs A History of the Theory of Investments is about ideas -- where they come from, how they evolve, and why they are instrumental in preparing the future for new ideas. Author Mark Rubinstein writes history by rewriting history. In unearthing long-forgotten books and journals, he corrects past oversights to assign credit where credit is due and assembles a remarkable history that is unquestionable in its accuracy and unprecedented in its power. Exploring key turning points in the development of investment theory, through the critical prism of award-winning investment theory and asset pricing expert Mark Rubinstein, this groundbreaking resource follows the chronological development of investment theory over centuries, exploring the inner workings of great theoretical breakthroughs while pointing out contributions made by often unsung contributors to some of investment's most influential ideas and models.

Credit Risk Management In and Out of the Financial Crisis Anthony Saunders,Linda Allen,2010-04-16 A classic book on credit risk management is updated to reflect the current economic crisis Credit Risk Management In and Out of the Financial Crisis dissects the 2007-2008 credit crisis and provides solutions for professionals looking to better manage risk through modeling and new technology. This book is a complete update to Credit Risk Measurement: New Approaches to Value at Risk and Other Paradigms, reflecting events stemming from the recent credit crisis. Authors Anthony Saunders and Linda Allen address everything from the implications of new regulations to how the new rules will change everyday activity in the finance industry. They also provide techniques for modeling-credit scoring, structural, and reduced form models-while offering sound advice for stress testing credit risk models and when to accept or reject loans. Breaks down the latest credit risk measurement and modeling techniques and simplifies many of the technical and analytical details surrounding them Concentrates on the underlying economics to objectively evaluate new models Includes new chapters on how to prevent another crisis from occurring Understanding credit risk measurement is now more important than ever. Credit Risk Management In and Out of the Financial Crisis will solidify your knowledge of this dynamic discipline.

Islamic Finance and the New Financial System Tariq Alrifai,2015-04-02 Can Islamic finance save the global system? Islamic Finance and the New Financial System describes how the adoption of Islamic finance principles in future regulatory decisions could help prevent future shocks in the global financial system. Using illustrations and examples to highlight key points in recent history, this book discusses the causes of financial crises, why they are becoming more frequent and increasingly severe, and how the new financial system will incorporate elements of Islamic finance - whether deliberately or not. With an introspective look at the system and an examination of the misconceptions and deficiencies in theory vs. practice, readers will learn why Islamic finance has not been as influential as it should be on the larger global system. Solutions to these crises are thoroughly detailed, and the author puts forth a compelling argument about what can be expected in the future. Despite international intervention and global policy changes, the financial system remains in a fragile state. There is an argument to be made about integrating Islamic finance into the new system to facilitate stronger resilience, and this book explains the nuts and bolts of the idea while providing the reader with a general understanding of Islamic finance. Understand the key principles of Islamic finance Examine the history of the current financial system Discover how Islamic finance can help build a new debt-free economy Learn how Islamic finance theory doesn't always dictate practice Although Islamic finance is a growing market, it is still a foreign concept to many. Those within the Islamic finance circles wonder why the system has yet to gain broader appeal despite its ability to create a strong and well-balanced economy. Islamic Finance and the New Financial System provides clever analysis and historical background to put the issues into perspective.

A Practical Guide to Forecasting Financial Market Volatility Ser-Huang Poon,2005-08-19 Financial market volatility forecasting is one of today's most important areas of expertise for professionals and academics in investment, option pricing, and financial market regulation. While many books address financial market modelling, no single book is devoted primarily to the exploration of volatility forecasting and the practical use of forecasting models. A Practical Guide to Forecasting Financial Market Volatility provides practical guidance on this vital topic through an in-depth examination of a range of popular forecasting models. Details are provided on proven techniques for building volatility models, with guide-lines for actually using them in forecasting applications.

Problems and Solutions in Mathematical Finance Eric CHIN,2014

Active Credit Portfolio Management Jochen Felsenheimer,Philip Gisdakis,Michael Zaiser,2006-03-10 The introduction of the euro in 1999 marked the starting point of the development of a very liquid and heterogeneous EUR credit market, which exceeds EUR 350bn with respect to outstanding corporate bonds. As a result, credit risk trading and credit portfolio management gained significantly in importance. The book shows how to optimize, manage, and hedge liquid credit portfolios, i.e. applying innovative derivative instruments. Against the background of the highly complex structure of credit derivatives, the book points out how to implement portfolio optimization concepts using credit-relevant parameters, and basic Markowitz or more sophisticated modified approaches (e.g., Conditional Value at Risk, Omega optimization) to fulfill the special needs of an active credit portfolio management on a single-name and on a portfolio basis (taking default correlation within a credit risk model framework into account). This includes appropriate strategies to analyze the impact from credit-relevant newsflow (macro- and micro-fundamental news, rating actions, etc.). As credits resemble equity-linked instruments, we also highlight how to implement debt-equity strategies, which are based on a modified Merton approach. The book is obligatory for credit portfolio managers of funds and insurance companies, as well as bank-book managers, credit traders in investment banks, cross-asset players in hedge funds, and risk controllers.

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