A Course In Derivative Securities Introduction To Theory And Computation Springer Finance

A Course in Derivative SecuritiesDerivatives Analytics with PythonA Course in Derivative SecuritiesDerivative Securities and Difference MethodsIntroduction to DerivativesPricing Derivative SecuritiesDerivativesBrazilian Derivatives and SecuritiesIntroduction To Derivative Securities, Financial Markets, And Risk Management, An (Second Edition)OptionsUnderstanding DerivativesRisk Management, Speculation, and Derivative SecuritiesFinancial CalculusA Factor Model Approach to Derivative PricingPricing Derivative SecuritiesDerivative SecuritiesDerivativesOption Volatility Trading StrategiesBuilding Financial Derivatives Applications with C++Derivatives in Financial Markets with Stochastic VolatilityFixed Income and Interest Rate Derivative AnalysisAn Introduction to Derivative Securities, Financial Markets, and Risk ManagementDerivative Securities Reader (Custom Edition)Trading and Pricing Financial DerivativesFinancial Derivatives PricingDerivatives EssentialsDerivativesStructured Equity DerivativesQuantitative Modeling of Derivative SecuritiesIntroduction To Derivative Securities, Financial Markets, And Risk Management, An (Second Edition)An Introduction to the Mathematics of Financial DerivativesFinancial Engineering and ComputationThe Mathematics of Derivatives Securities with Applications in MATLABThe Mathematics of Financial DerivativesDerivativesFundamentals of

Financial InstrumentsIntroductory Course on Financial MathematicsPricing and Hedging of Derivative SecuritiesPricing Derivative SecuritiesMy Life as a Quant

A Course in Derivative Securities

The theory of pricing and hedging of derivative securities is mathematically sophisticated. This book is an introduction to the use of advanced probability theory in financial economics, presenting the necessary mathematics in a precise and rigorous manner. Professor Nielsen concentrates onthree main areas: the theory of continuous-time stochastic processes, a notorious barrier to the understanding of probability theory in finance; the general theory of trading, pricing, and hedging in continuous time, using the martingale approach; and a detailed look at the BlackScholes and theGaussian one-factor models of the term structure of interest rates. His book enables the reader to read the journal literature with confidence, apply the methods to new problems, or to do original research in the field.

Derivatives Analytics with Python

A Course in Derivative Securities

"Deals with pricing and hedging financial derivatives. Computational methods are introduced and the text contains the Excel VBA routines corresponding to the formulas and procedures described in the book. This is valuable since computer simulation can help readers understand the theory.The booksucceeds in presenting intuitively advanced derivative modelling it provides a useful bridge between introductory books and the more advanced literature." --MATHEMATICAL REVIEWS

Derivative Securities and Difference Methods

Although the pricing and hedging of derivatives contracts has been the subject of a large number of books, hardly any books exist on the actual design of derivatives contracts. Structured Equity Derivatives fills this gap in a remarkable way. The book introduces an approach to the structuring and practical application of derivatives that allows the reader to create his own derivatives solutions to an endless variety of problems. The approach is extremely natural - the only limit is the reader's own creativity. Since it clearly explains the reasons why derivatives exist and why there is such a large variety, this is the book that should be read before picking up any other book on the pricing and hedging of derivatives. As the book concentrates on product design instead of pricing, there are no complex pricing formulas or numerical procedures. The emphasis is on intuition and common sense rather than complex formal results, which makes the book

accessible to people from many different backgrounds.

Introduction to Derivatives

This custom edition is published for the University of Sydney.

Pricing Derivative Securities

Written by two of the most distinguished finance scholars in the industry, this introductory textbook on derivatives and risk management is highly accessible in terms of the concepts as well as the mathematics.With its economics perspective, this rewritten and streamlined second edition textbook, is closely connected to real markets, and:Beginning at a level that is comfortable to lower division college students, the book gradually develops the content so that its lessons can be profitably used by business majors, arts, science, and engineering graduates as well as MBAs who would work in the finance industry.

Derivatives

bonds --

Brazilian Derivatives and Securities

Quantitative Finance is expanding rapidly. One of the aspects of the recent financial crisis is that, given the complexity of financial products, the demand for people with high numeracy skills is likely to grow and this means more recognition will be given to Quantitative Finance in existing and new course structures worldwide. Evidence has suggested that many holders of complex financial securities before the financial crisis did not have in-house experts or rely on a third-party in order to assess the risk exposure of their investments. Therefore, this experience shows the need for better understanding of risk associate with complex financial securities in the future. The Mathematics of Derivative Securities with Applications in MATLAB provides readers with an introduction to probability theory, stochastic calculus and stochastic processes, followed by discussion on the application of that knowledge to solve complex financial problems such as pricing and hedging exotic options, pricing American derivatives, pricing and hedging under stochastic volatility and an introduction to interest rates modelling. The book begins with an overview of MATLAB and the various components that will be used alongside it throughout the textbook. Following this, the first part of the book is an in depth introduction to Probability theory, Stochastic Processes and Ito Calculus and Ito Integral. This is essential to fully understand some of the mathematical concepts used in the following part of the book. The second part focuses on financial engineering and guides the reader through the fundamental theorem of

asset pricing using the Black and Scholes Economy and Formula, Options Pricing through European and American style options, summaries of Exotic Options, Stochastic Volatility Models and Interest rate Modelling. Topics covered in this part are explained using MATLAB codes showing how the theoretical models are used practically. Authored from an academic's perspective, the book discusses complex analytical issues and intricate financial instruments in a way that it is accessible to postgraduate students with or without a previous background in probability theory and finance. It is written to be the ideal primary reference book or a perfect companion to other related works. The book uses clear and detailed mathematical explanation accompanied by examples involving real case scenarios throughout and provides MATLAB codes for a variety of topics.

Introduction To Derivative Securities, Financial Markets, And Risk Management, An (Second Edition)

Written by Robert Jarrow, one of the true titans of finance, and his former student Arkadev Chatterjea, Introduction to Derivatives is the first text developed from the ground up for students taking the introductory derivatives course. The math is presented at the right level and is always motivated by what 's happening in the financial markets. And, as one of the developers of the Heath-Jarrow-Morton Model, Robert Jarrow presents a novel, accessible way to understand this important topic.

Options

Quantitative Modeling of Derivative Securities demonstrates how to take the basic
ideas of arbitrage theory and apply them - in a very concrete way - to the design
and analysis of financial products. Based primarily (but not exclusively) on the
analysis of derivatives, the book emphasizes relative-value and hedging ideas
applied to different financial instruments. Using a ""financial engineering
approach,"" the theory is developed progressively, focusing on specific aspects of
pricing and hedging and with problems that the technical analyst or trader has to
consider in practice. More than just an introductory text, the reader who has
mastered the contents of this one book will have breached the gap separating the
novice from the technical and research literature.

Understanding Derivatives

This book is an elementary introduction to the basic concepts of financial
mathematics with a central focus on discrete models and an aim to demonstrate
simple, but widely used, financial derivatives for managing market risks. Only a
basic knowledge of probability, real analysis, ordinary differential equations, linear
algebra and some common sense are required to understand the concepts
considered in this book. Financial mathematics is an application of advanced

mathematical and statistical methods to financial management and markets, with a main objective of quantifying and hedging risks. Since the book aims to present the basics of financial mathematics to the reader, only essential elements of probability and stochastic analysis are given to explain ideas concerning derivative pricing and hedging. To keep the reader intrigued and motivated, the book has a 'sandwich' structure: probability and stochastics are given in situ where mathematics can be readily illustrated by application to finance. The first part of the book introduces one of the main principles in finance — 'no arbitrage pricing'. It also introduces main financial instruments such as forward and futures contracts, bonds and swaps, and options. The second part deals with pricing and hedging of European- and American-type options in the discrete-time setting. In addition, the concept of complete and incomplete markets is discussed. Elementary probability is briefly revised and discrete-time discrete-space stochastic processes used in financial modelling are considered. The third part introduces the Wiener process, Ito integrals and stochastic differential equations, but its main focus is the famous Black–Scholes formula for pricing European options. Some guidance for further study within this exciting and rapidly changing field is given in the concluding chapter. There are approximately 100 exercises interspersed throughout the book, and solutions for most problems are provided in the appendices.

Risk Management, Speculation, and Derivative Securities

Basic option theory - Numerical methods - Further option theory - Interest rate derivative products.

Financial Calculus

CD-ROM contains: MAPLE student version 5.0; online version of text; MATLAB GUI; IDEAL software (embedded in online text).

A Factor Model Approach to Derivative Pricing

Three experts provide an authoritative guide to the theory and practice of derivatives Derivatives: Theory and Practice and its companion website explore the practical uses of derivatives and offer a guide to the key results on pricing, hedging and speculation using derivative securities. The book links the theoretical and practical aspects of derivatives in one volume whilst keeping mathematics and statistics to a minimum. Throughout the book, the authors put the focus on explanations and applications. Designed as an engaging resource, the book contains commentaries that make serious points in a lighthearted manner. The authors examine the real world of derivatives finance and include discussions on a wide range of topics such as the use of derivatives by hedge funds and the application of strip and stack hedges by corporates, while providing an analysis of

how risky the stock market can be for long-term investors, and more. To enhance learning, each chapter contains learning objectives, worked examples, details of relevant finance blogs technical appendices and exercises.

Pricing Derivative Securities

This book studies pricing financial derivatives with a partial differential equation approach. The treatment is mathematically rigorous and covers a variety of topics in finance including forward and futures contracts, the Black-Scholes model, European and American type options, free boundary problems, lookback options, interest rate models, interest rate derivatives, swaps, caps, floors, and collars. Each chapter concludes with exercises.

Derivative Securities

Skilled investors know that to play in today's high-risk global-investment environment, they must maximize return while hedging risk. To do this successfully, investors must understand the intricacies and nuances of a myriad of investment vehicles, many relatively new to the investment arena. In Derivative Securities: The Complete Investor's Guide, two renowned experts show how a unified approach to derivatives that pays equal attention to options and futures

pricing in both theory and practice, allows the investor to achieve his or her goals. Particular attention is paid to the issue of credit risk in pricing and the crucial function of risk management.

Derivatives

Although most universities now have an undergraduate derivatives course, many instructors were, and still are, in desperate need of a book with coverage that is both adequate and accessible - as most textbooks on financial derivatives are either too basic or too advanced for undergraduate students.Understanding Derivatives: Options, Futures, Swaps, MBSs, CDOs and Others, First Edition, provides a broad introduction to the options, futures, swaps and interest rate options markets, and also provides the intuition needed to understand the fundamental mathematics of pricing. In addition, coverage of innovative derivative products such as exotic options, weather derivatives, catastrophe futures and volatility spreads has not been neglected. We cover these concepts - without delving into their pricing or valuation - and conclude with a contemporary issues chapter that discusses the latest developments in the field.This book presents a good balance of theory and practice. It is important for a student of the derivatives market to understand how arbitrage arguments lead to rational option pricing, why the cost of carry is crucial to futures pricing, and how a swap dealer determines the fixed rate on an interest rate swap. These are enjoyable topics to learn about,

and motivated finance students can find them fascinating. At the same time, it is equally important to understand how the end-user makes intelligent use of these products as risk management tools. Additionally, a variety of application examples are included from the perspective of both the speculator and the hedger.

Option Volatility Trading Strategies

A step-by-step explanation of the mathematical models used to price derivatives. For this second edition, Salih Neftci has expanded one chapter, added six new ones, and inserted chapter-concluding exercises. He does not assume that the reader has a thorough mathematical background. His explanations of financial calculus seek to be simple and perceptive.

Building Financial Derivatives Applications with C++

This book, first published in 2000, addresses pricing and hedging derivative securities in uncertain and changing market volatility.

Derivatives in Financial Markets with Stochastic Volatility

CD-ROM contains: MAPLE student version 5.0; online version of text; MATLAB GUI;

IDEAL software (embedded in online text).

Fixed Income and Interest Rate Derivative Analysis

A comprehensive text and reference, first published in 2002, on the theory of financial engineering with numerous algorithms for pricing, risk management, and portfolio management.

An Introduction to Derivative Securities, Financial Markets, and Risk Management

Supercharge options analytics and hedging using the power of Python Derivatives Analytics with Python shows you how to implement market-consistent valuation and hedging approaches using advanced financial models, efficient numerical techniques, and the powerful capabilities of the Python programming language. This unique guide offers detailed explanations of all theory, methods, and processes, giving you the background and tools necessary to value stock index options from a sound foundation. You'll find and use self-contained Python scripts and modules and learn how to apply Python to advanced data and derivatives analytics as you benefit from the 5,000+ lines of code that are provided to help you reproduce the results and graphics presented. Coverage includes market data

analysis, risk-neutral valuation, Monte Carlo simulation, model calibration, valuation, and dynamic hedging, with models that exhibit stochastic volatility, jump components, stochastic short rates, and more. The companion website features all code and IPython Notebooks for immediate execution and automation. Python is gaining ground in the derivatives analytics space, allowing institutions to quickly and efficiently deliver portfolio, trading, and risk management results. This book is the finance professional's guide to exploiting Python's capabilities for efficient and performing derivatives analytics. Reproduce major stylized facts of equity and options markets yourself Apply Fourier transform techniques and advanced Monte Carlo pricing Calibrate advanced option pricing models to market data Integrate advanced models and numeric methods to dynamically hedge options Recent developments in the Python ecosystem enable analysts to implement analytics tasks as performing as with C or C++, but using only about one-tenth of the code or even less. Derivatives Analytics with Python — Data Analysis, Models, Simulation, Calibration and Hedging shows you what you need to know to supercharge your derivatives and risk analytics efforts.

Derivative Securities Reader (Custom Edition)

Derivatives by Paul Wilmott provides the most comprehensive and accessible analysis of the art of science in financial modeling available. Wilmott explains and challenges many of the tried and tested models while at the same time offering the

reader many new and previously unpublished ideas and techniques. Paul Wilmott has produced a compelling and essential new work in this field. The basics of the established theories-such as stochastic calculus, Black-Scholes, binomial trees and interest-rate models-are covered in clear and precise detail, but Derivatives goes much further. Complex models-such as path dependency, non-probabilistic models, static hedging and quasi-Monte Carlo methods-are introduced and explained to a highly sophisticated level. But theory in itself is not enough, an understanding of the role the techniques play in the daily world of finance is also examined through the use of spreadsheets, examples and the inclusion of Visual Basic programs. The book is divided into six parts: Part One: acts as an introduction and explanation of the fundamentals of derivatives theory and practice, dealing with the equity, commodity and currency worlds. Part Two: takes the mathematics of Part One to a more complex level, introducing the concept of path dependency. Part Three: concerns extensions of the Black-Scholes world, both classic and modern. Part Four: deals with models for fixed-income products. Part Five: describes models for risk management and measurement. Part Six: delivers the numerical methods required for implementing the models described in the rest of the book. Derivatives also includes a CD containing a wide variety of implementation material related to the book in the form of spreadsheets and executable programs together with resource material such as demonstration software and relevant contributed articles. At all times the style remains readable and compelling making Derivatives the essential book on every finance shelf.

Trading and Pricing Financial Derivatives

Financial Derivatives Pricing

In My Life as a Quant, Emanuel Derman relives his exciting journey as one of the first high-energy particle physicists to migrate to Wall Street. Page by page, Derman details his adventures in this field—analyzing the incompatible personas of traders and quants, and discussing the dissimilar nature of knowledge in physics and finance. Throughout this tale, he also reflects on the appropriate way to apply the refined methods of physics to the hurly-burly world of markets.

Derivatives Essentials

Written in a highly accessible style, A Factor Model Approach to Derivative Pricing lays a clear and structured foundation for the pricing of derivative securities based upon simple factor model related absence of arbitrage ideas. This unique and unifying approach provides for a broad treatment of topics and models, including equity, interest-rate, and credit derivatives, as well as hedging and tree-based computational methods, but without reliance on the heavy prerequisites that often accompany such topics. Key features A single fundamental absence of arbitrage

relationship based on factor models is used to motivate all the results in the book A structured three-step procedure is used to guide the derivation of absence of arbitrage equations and illuminate core underlying concepts Brownian motion and Poisson process driven models are treated together, allowing for a broad and cohesive presentation of topics The final chapter provides a new approach to risk neutral pricing that introduces the topic as a seamless and natural extension of the factor model approach Whether being used as text for an intermediate level course in derivatives, or by researchers and practitioners who are seeking a better understanding of the fundamental ideas that underlie derivative pricing, readers will appreciate the book's ability to unify many disparate topics and models under a single conceptual theme. James A Primbs is an Associate Professor of Finance at the Mihaylo College of Business and Economics at California State University, Fullerton.

Derivatives

Sheldon Natenberg is one of the most sought after speakers on the topic of option trading and volatility strategies. This book takes Sheldon's non-technical, carefully crafted presentation style and applies it to a book—one that you'll study and carry around for years as your personal consultant. Learn about the most vital concepts that define options trading, concepts you'll need to analyze and trade with confidence. In this volume, Sheldon explains the difference between historical

volatility, future volatility, and implied volatility. He provides real inspiration and wisdom gleaned from years of trading experience. Th is book captures the energy of the spoken message direct from the source. Learn about implied volatility and how it is calculated Gain insight into the assumptions driving an options pricing model Master the techniques of comparing price to value Realize the important part that probability plays in estimating option prices

Structured Equity Derivatives

A guide to understanding the complex derivatives market, by the acclaimed author of After the Trade is Made In today's highly charged and rapidly changing financial climate, derivatives are dominating global headlines. It is essential for financial professionals to have a strong grasp of the products, practices, and regulatory agencies associated with the complex derivatives market in order to keep up. In this book, financial expert David Weiss introduces readers to the basic concept of a derivative and offers a thorough examination of the many derivative products. Breaking down a complex market into its basic parts, he systematically explains the structure, usage, and value aspect of all the products constituting the derivatives universe, including: Credit Default Swaps (CDS) Asset-Backed Securities (ABS) Exchange-Traded Funds Currency Rates Swaps Options Futures Forwards For each of these types of derivatives, Weiss introduces the players in the market, outlines the mechanics of trading, and explains the role of regulation

and oversight in the process. Written for portfolio managers, brokers, financial planners, and institutional investors, this book is an indispensable tool for today's investor and will leave readers better equipped to understand one of finance's most complex arenas.

Quantitative Modeling of Derivative Securities

The Brazilian financial markets operate in a very different way to G7 markets. Key differences include onshore and offshore markets, exponential rates, business days day-counts, and price formation from the futures markets (instead of the cash markets). This book provides a quantitative, applied guide to the offshore and onshore Brazilian markets, with a focus on the financial instruments unique to the region. It offers a comprehensive introduction to the key financial 'archaeology' in the Brazil context, exploring interest rates, FX and inflation and key differences from G7 market finance. It explores the core industry investment banking business in detail, from FX to interest rates and cash and inflation. Finally it introduces the region's unique financial instruments, as well as their pricing and risk management needs. Covering both introductory and complex topics, this book provides existing practitioners in Brazil, as well as those interested in becoming involved in these markets, everything they need to understand the market dynamics, risks, pricing and calibration of curves for all products currently available.

Introduction To Derivative Securities, Financial Markets, And Risk Management, An (Second Edition)

The complete guide to derivatives, from the experts at the CFA Derivatives is the definitive guide to derivatives, derivative markets, and the use of options in risk management. Written by the experts at the CFA Institute, this book provides authoritative reference for students and investment professionals seeking a deeper understanding for more comprehensive portfolio management. General discussion of the types of derivatives and their characteristics gives way to detailed examination of each market and its contracts, including forwards, futures, options, and swaps, followed by a look at credit derivatives markets and their instruments. Included lecture slides help bring this book directly into the classroom, while the companion workbook (sold separately) provides problems and solutions that align with the text and allows students to test their understanding while facilitating deeper internalization of the material. Derivatives have become essential to effective financial risk management, and create synthetic exposure to asset classes. This book builds a conceptual framework for understanding derivative fundamentals, with systematic coverage and detailed explanations. Understand the different types of derivatives and their characteristics Delve into the various markets and their associated contracts Examine the use of derivatives in portfolio management Learn why derivatives are increasingly fundamental to risk

management The CFA Institute is the world's premier association for investment professionals, and the governing body for the CFA, CIPM, and Investment Foundations Programs. Those seeking a deeper understanding of the markets, mechanisms, and use of derivatives will value the level of expertise CFA lends to the discussion, providing a clear, comprehensive resource for students and professionals alike. Whether used alone or in conjunction with the companion workbook, Derivatives offers a complete course in derivatives and their markets.

An Introduction to the Mathematics of Financial Derivatives

Presenting an integrated explanation of speculative trading and risk management from the practitioner's point of view, "Risk Management, Speculation, and Derivative Securities" is a standard text on financial risk management that departs from the perspective of an agent whose main concerns are pricing and hedging derivatives.

Financial Engineering and Computation

This book presents techniques for valuing derivative securities at a level suitable for practitioners, students in doctoral programs in economics and finance, and those in masters-level programs in financial mathematics and computational

finance. It provides the necessary mathematical tools from analysis, probability theory, the theory of stochastic processes, and stochastic calculus, making extensive use of examples. It also covers pricing theory, with emphasis on martingale methods. The chapters are organized around the assumptions made about the dynamics of underlying price processes. Readers begin with simple, discrete-time models that require little mathematical sophistication, proceed to the basic Black-Scholes theory, and then advance to continuous-time models with multiple risk sources. The second edition takes account of the major developments in the field since 2000. New topics include the use of simulation to price American-style derivatives, a new one-step approach to pricing options by inverting characteristic functions, and models that allow jumps in volatility and Markov-driven changes in regime. The new chapter on interest-rate derivatives includes extensive coverage of the LIBOR market model and an introduction to the modeling of credit risk. As a supplement to the text, the book contains an accompanying CD-ROM with user-friendly FORTRAN, C++, and VBA program components.

The Mathematics of Derivatives Securities with Applications in MATLAB

A clear, practical guide to working effectively with derivative securities products

Derivatives Essentials is an accessible, yet detailed guide to derivative securities. With an emphasis on mechanisms over formulas, this book promotes a greater understanding of the topic in a straightforward manner, using plain-English explanations. Mathematics are included, but the focus is on comprehension and the issues that matter most to practitioners—including the rights and obligations, terms and conventions, opportunities and exposures, trading, motivation, sensitivities, pricing, and valuation of each product. Coverage includes forwards, futures, options, swaps, and related products and trading strategies, with practical examples that demonstrate each concept in action. The companion website provides Excel files that illustrate pricing, valuation, sensitivities, and strategies discussed in the book, and practice and assessment questions for each chapter allow you to reinforce your learning and gauge the depth of your understanding. Derivative securities are a complex topic with many "moving parts," but practitioners must possess a full working knowledge of these products to use them effectively. This book promotes a truly internalized understanding rather than rote memorization or strict quantitation, with clear explanations and true-to-life examples. Understand the concepts behind derivative securities Delve into the nature, pricing, and offset of sensitivities Learn how different products are priced and valued Examine trading strategies and practical examples for each product Pricing and valuation is important, but understanding the fundamental nature of each product is critical—it gives you the power to wield them more effectively, and exploit their natural behaviors to achieve both short- and long-term market goals.

Derivatives Essentials provides the clarity and practical perspective you need to master the effective use of derivative securities products.

The Mathematics of Financial Derivatives

"Deals with pricing and hedging financial derivatives. Computational methods are introduced and the text contains the Excel VBA routines corresponding to the formulas and procedures described in the book. This is valuable since computer simulation can help readers understand the theory.The booksucceeds in presenting intuitively advanced derivative modelling it provides a useful bridge between introductory books and the more advanced literature." --MATHEMATICAL REVIEWS

Derivatives

Introduction to Derivatives: Options, Futures, and Swaps offers a comprehensive coverage of derivatives. The text covers a broad range of topics, including basic and advanced option and futures strategies, the binomial option pricing model, the Black-Scholes-Merton model, exotic options, binomial interest rate trees, dynamic portfolio insurance, the management of equity, currency, and fixed-income positions with derivatives, interest rate, currency, and credit default swaps, embedded options, and asset-backed securities and their derivatives. With over

300 end-of-chapter problems and web exercises, an appendix explaining Bloomberg derivative information and functions, and an accompanying software derivatives program, this book has a strong pedagogical content that will take students from a fundamental to an advanced understanding of derivatives.

Fundamentals of Financial Instruments

Fixed Income and Interest Rate Derivative Analysis gives a clear and accessible approach to the analytical techniques of debt instrument valuation. Without using complicated mathematical abstractions, this text shows that the fundamentals of fixed income and interest rate derivate analysis can be easily understood when seen as a small number of simple economic concepts. Concepts inroduced in this book are reinforced and explained, not with the use of high-powered mathematics, but with actual examples of various market instruments and case studies from North America, Europe, Australia and Hong Kong. The text also contains review questions which aid the reader in their understanding. Mark Britten-Jones, BEcon, MA, PhD, is an Assistant Professor of Finance at the London Business School where he teaches Fixed Income Securities and Markets as part of a MBA and Master's course in Finance. A comprehensive and accessible explanation of underlying theory, and its practical application Case studies and worked examples from around the world's capital markets How to use spreadsheet modelling in fixed income and interest rate derivative valuation

Introductory Course on Financial Mathematics

Explains how to write C++ source code and simultaneously solve complex derivatives valuation problems.

Pricing and Hedging of Derivative Securities

Trading and Pricing Financial Derivatives is an introduction to the world of futures, options, and swaps. Investors who are interested in deepening their knowledge of derivatives of all kinds will find this book to be an invaluable resource. The book is also useful in a very applied course on derivative trading. The authors delve into the history of options pricing; simple strategies of options trading; binomial tree valuation; Black-Scholes option valuation; option sensitivities; risk management and interest rate swaps in this immensely informative yet easy to comprehend work. Using their vast working experience in the financial markets at international investment banks and hedge funds since the late 1990s and teaching derivatives and investment courses at the Master's level, Patrick Boyle and Jesse McDougall put forth their knowledge and expertise in clearly explained concepts. This book does not presuppose advanced mathematical knowledge, though it is presented for completeness for those that may benefit from it, and is designed for a general audience, suitable for beginners through to those with intermediate knowledge of

the subject.

Pricing Derivative Securities

Written by two of the most distinguished finance scholars in the industry, this introductory textbook on derivatives and risk management is highly accessible in terms of the concepts as well as the mathematics.With its economics perspective, this rewritten and streamlined second edition textbook, is closely connected to real markets, and:Beginning at a level that is comfortable to lower division college students, the book gradually develops the content so that its lessons can be profitably used by business majors, arts, science, and engineering graduates as well as MBAs who would work in the finance industry.

My Life as a Quant

The rewards and dangers of speculating in the modern financial markets have come to the fore in recent times with the collapse of banks and bankruptcies of public corporations as a direct result of ill-judged investment. At the same time, individuals are paid huge sums to use their mathematical skills to make well-judged investment decisions. Here now is the first rigorous and accessible account of the mathematics behind the pricing, construction and hedging of derivative

securities. Key concepts such as martingales, change of measure, and the Heath-Jarrow-Morton model are described with mathematical precision in a style tailored for market practitioners. Starting from discrete-time hedging on binary trees, continuous-time stock models (including Black-Scholes) are developed. Practicalities are stressed, including examples from stock, currency and interest rate markets, all accompanied by graphical illustrations with realistic data. A full glossary of probabilistic and financial terms is provided. This unique book will be an essential purchase for market practitioners, quantitative analysts, and derivatives traders.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION