

An Introduction To Derivative Securities Financial Markets And Risk Management

Understand derivatives in a nonmathematical way Financial Derivatives, Third Edition gives readers a broad working knowledge of derivatives. For individuals who want to understand derivatives without getting bogged down in the mathematics surrounding their pricing and valuation Financial Derivatives, Third Edition is the perfect read. This comprehensive resource provides a thorough introduction to financial derivatives and their importance to risk management in a corporate setting.

Written entirely by the authors, the Solutions Manual provides worked solutions for all the problems in the book.

This title provides a practical, applied approach to derivatives, and the intuition underlying the mathematics.

Written by the quantitative research team of Deutsche Bank, the world leader in innovative equity derivative transactions, this book acquaints readers with leading-edge thinking in modeling and hedging these transactions. Equity Derivatives offers a balanced, integrated presentation of theory and practice in equity derivative markets. It provides a theoretical treatment of each new modeling and hedging concept first, and then demonstrates their practical application. The book covers: the newest and fastest-growing class of derivative instruments, fund derivatives; cutting-edge developments in equity derivative modeling; new developments in correlation modeling and understanding volatility skews; and new Web-based

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implementation/delivery methods. Marcus Overhaus, PhD, Andrew Ferraris, DPhil, Thomas Knudsen, PhD, Frank Mao, PhD, Ross Milward, Laurent Nguyen-Ngoc, PhD, and Gero Schindlmayr, PhD, are members of the Quantitative Research team of Deutsche Bank's Global Equity Division, which is based in London and headed by Dr. Overhaus.

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. Supplementary materials are available to instructors who adopt this textbook for their courses. These include: Solutions Manual with detailed solutions to nearly 500 end-of-chapter questions and problems PowerPoint slides and a Test Bank for adopters PRICED! In line with current teaching trends, we have woven spreadsheet applications throughout the text. Our aim is for students to achieve self-sufficiency so that they can generate all the models and graphs in this book via a spreadsheet software, Priced!

"Derivative Securities provides a comprehensive and accessible introduction to derivative securities, such as forward contracts, futures contracts, options on assets, options on futures contracts, and credit swaps. It features a new, unified approach to the pricing and hedging of futures and options, and covers diverse areas such as equity, stock index, foreign currency, interest rate and commodity derivatives, as well as swaps and exotic options."--BOOK

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Derivatives Markets is a thorough and well-presented textbook that offers readers an introduction to derivatives instruments, with a gentle introduction to mathematical finance, and provides a working knowledge of derivatives to a wide area of market participants. This new and accessible book provides a lucid, down-to-earth, theoretically rigorous but applied introduction to derivatives. Many insights have been discovered since the seminal work in the 1970s and the text provides a bridge to and incorporates them. It develops the skill sets needed to both understand and to intelligently use derivatives. These skill sets are developed in part by using concept checks that test the reader's understanding of the material as it is presented. The text discusses some fairly sophisticated topics not usually discussed in introductory derivatives texts. For example, real-world electronic market trading platforms such as CME's Globex. On the theory side, a much needed and detailed discussion of what risk-neutral valuation really means in the context of the dynamics of the hedge portfolio. The text is a balanced, logical presentation of the major derivatives classes including forward and futures contracts in Part I, swaps in Part II, and options in Part III. The material is unified by providing a modern conceptual framework and exploiting the no-arbitrage relationships between the different derivatives classes. Some of the elements explained in detail in the text are: Hedging, Basis Risk, Spreading, and Spread Basis Risk Financial Futures Contracts, their Underlying Instruments, Hedging and Speculating OTC Markets and Swaps Option Strategies: Hedging and Speculating Risk-Neutral Valuation and the Binomial Option Pricing Model Equivalent Martingale Measures: The Modern Approach to Option Pricing Option Pricing in Continuous Time: from Bachelier to Black-Scholes and Beyond. Professor Goldenberg's clear and concise

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explanations and end-of-chapter problems, guide the reader through the derivatives markets, developing the reader's skill sets needed in order to incorporate and manage derivatives in a corporate or risk management setting. This textbook is for students, both undergraduate and postgraduate, as well as for those with an interest in how and why these markets work and thrive.

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

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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.

A market leader, this book has detailed but flexible coverage of options, futures, forwards, swaps, and risk management – as well as a solid introduction to pricing, trading, and strategy allowing readers to gain valuable information on a wide range of topics and apply to situations they may face.

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.

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.

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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. Its unified treatment of derivative security applications to both risk management and speculative trading separates this book from others. Presenting an integrated explanation of speculative trading and risk management from the practitioner's point of view, Risk Management, Speculation, and Derivative Securities is the only standard text on financial risk management that departs from the perspective of an agent whose main concerns are pricing and hedging derivatives. After offering a general framework for risk management and speculation using derivative securities, it explores specific applications to forward contracts and options. Not intended as a comprehensive introduction to derivative securities, Risk Management, Speculation, and Derivative Securities is the innovative, useful approach that addresses new developments in derivatives and risk management. *The only standard text on financial risk management

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that departs from the perspective of an agent whose main concerns are pricing and hedging derivatives *Examines speculative trading and risk management from the practitioner's point of view *Provides an innovative, useful approach that addresses new developments in derivatives and risk management

"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 book...succeeds in presenting intuitively advanced derivative modelling... it provides a useful bridge between introductory books and the more advanced literature." --MATHEMATICAL REVIEWS

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.

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This unique book will be an essential purchase for market practitioners, quantitative analysts, and derivatives traders.

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 on three 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 Black-Scholes and the Gaussian 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.

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.

The book presents applications of stochastic calculus to derivative security pricing and interest rate modelling. By focusing more on the financial intuition of the applications rather than the mathematical formalities, the book provides the essential knowledge and understanding of fundamental concepts of stochastic finance, and how to implement them to develop pricing models for derivatives as well as to model spot and forward interest rates. Furthermore an

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extensive overview of the associated literature is presented and its relevance and applicability are discussed. Most of the key concepts are covered including Ito's Lemma, martingales, Girsanov's theorem, Brownian motion, jump processes, stochastic volatility, American feature and binomial trees. The book is beneficial to higher-degree research students, academics and practitioners as it provides the elementary theoretical tools to apply the techniques of stochastic finance in research or industrial problems in the field.

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

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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.

Praise for Fixed-Income Securities and Derivatives Handbook Second Edition "I have been looking for books for my clients and obtained a copy of your book. I think it is the best book about fixed-income securities out there. The book is extremely well written and is the best resource I have found so far." —Patrick Y. Shim, Financial Advisor, CG Investment Group, Wells Fargo Advisors, LLC The Second Edition of the Fixed-Income Securities and Derivatives Handbook is a fully updated and expanded post-crash edition of Moorad Choudhry's bestselling guide. In this latest edition, he explains the new regulatory twists, the evolving derivatives market, as well as a new set of instruments and opportunities in the bond market. Thoroughly updated and revised, this Second Edition includes new material on important topics such as: A practical demonstration of cubic spline methodology, useful in constructing yield curves The latest developments in the credit derivative market An accessible analysis of credit default swap pricing principles A description of inflation-indexed derivatives A more detailed look at the basic principles of securitization and an updated chapter on collateralized debt obligations A new chapter on credit analysis and the different metrics used to measure bond-relative value Written in a straightforward and accessible style, Moorad Choudhry's new book offers the ideal mix of practical tips and academic theory.

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A rigorous introduction to the mathematics of pricing, construction and hedging of derivative securities.

Financial Risk Management and Derivative Instruments offers an introduction to the riskiness of stock markets and the application of derivative instruments in managing exposure to such risk. Structured in two parts, the first part offers an introduction to stock market and bond market risk as encountered by investors seeking investment growth. The second part of the text introduces the financial derivative instruments that provide for either a reduced exposure (hedging) or an increased exposure (speculation) to market risk. The fundamental aspects of the futures and options derivative markets and the tools of the Black-Scholes model are examined. The text sets the topics in their global context, referencing financial shocks such as Brexit and the Covid-19 pandemic. An accessible writing style is supported by pedagogical features such as key insights boxes, progressive illustrative examples and end-of-chapter tutorials. The book is supplemented by PowerPoint slides designed to assist presentation of the text material as well as providing a coherent summary of the lectures. This textbook provides an ideal text for introductory courses to derivative instruments and financial risk management for either undergraduate, masters or MBA students. This book is mainly devoted to finite difference numerical methods for solving

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partial differential equations (PDEs) models of pricing a wide variety of financial derivative securities. With this objective, the book is divided into two main parts. In the first part, after an introduction concerning the basics on derivative securities, the authors explain how to establish the adequate PDE boundary value problems for different sets of derivative products (vanilla and exotic options, and interest rate derivatives). For many option problems, the analytic solutions are also derived with details. The second part is devoted to explaining and analyzing the application of finite differences techniques to the financial models stated in the first part of the book. For this, the authors recall some basics on finite difference methods, initial boundary value problems, and (having in view financial products with early exercise feature) linear complementarity and free boundary problems. In each chapter, the techniques related to these mathematical and numerical subjects are applied to a wide variety of financial products. This is a textbook for graduate students following a mathematical finance program as well as a valuable reference for those researchers working in numerical methods in financial derivatives. For this new edition, the book has been updated throughout with many new problems added. More details about numerical methods for some options, for example, Asian options with discrete sampling, are provided and the proof of solution-uniqueness of derivative security

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problems and the complete stability analysis of numerical methods for two-dimensional problems are added. Review of first edition: "...the book is highly well designed and structured as a textbook for graduate students following a mathematical finance program, which includes Black-Scholes dynamic hedging methodology to price financial derivatives. Also, it is a very valuable reference for those researchers working in numerical methods in financial derivatives, either with a more financial or mathematical background." -- MATHEMATICAL REVIEWS

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

Coupling real business examples with minimal technical mathematics, market-leading INTRODUCTION TO DERIVATIVES AND RISK MANAGEMENT, 10e blends institutional material, theory, and practical applications to give students a solid understanding of how derivatives are used to manage the risks of financial decisions. The book delivers detailed coverage of options, futures, forwards, swaps, and risk management as well as a balanced introduction to pricing, trading, and strategy. New Taking Risk in Life features illustrate the application of risk management in real-world financial decisions. In addition, the financial information throughout the Tenth Edition reflects the most recent changes in the

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derivatives market--one of the most volatile sectors in the financial world.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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

A collection of premier papers on financial mathematics. Broad coverage.

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.

A practical, informative guide to derivatives in the realworld Derivatives is an exposition on investments, guiding you from the basic concepts, strategies, and fundamentals to a

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more detailed understanding of the advanced strategies and models. As part of Bloomberg Financial's three part series on securities, Derivatives focuses on derivative securities and the functionality of the Bloomberg system with regards to derivatives. You'll develop a tighter grasp of the more subtle complexities involved in the evaluation, selection, and management of derivatives, and gain the practical skillset necessary to apply your knowledge to real-world investment situations using the tools and techniques that dominate the industry. Instructions for using the widespread Bloomberg system are interwoven throughout, allowing you to directly apply the techniques and processes discussed using your own data. You'll learn the many analytical functions used to evaluate derivatives, and how these functions are applied within the context of each investment topic covered. All Bloomberg information appears in specified boxes embedded throughout the text, making it easy for you to find it quickly when you need it or, or easily skip it in favor of the theory-based text. Managing securities in today's dynamic and innovative investment environment requires a strong understanding of how the increasing variety of securities, markets, strategies, and methodologies are used. This book gives you a more thorough understanding, and a practical skillset that investment managers need. Understand derivatives strategies and models from basic to advanced Apply Bloomberg information and analytical functions Learn how investment decisions are made in the real world Grasp the complexities of securities evaluation, selection, and management The financial and academic developments of the past twenty years have highlighted the challenge in acquiring a comprehensive understanding of investments and financial markets. Derivatives provides the detailed explanations you've been seeking, and the hands-on training the real world demands. Three experts provide an authoritative guide to the theory and practice of derivatives

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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.

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

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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.

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.

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

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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.

While the valuation of standard American option contracts has now achieved a fair degree of maturity, much work remains to be done regarding the new contractual forms that are constantly emerging in response to evolving economic conditions and regulations. Focusing on recent developments in the field, American-Style Derivatives provides an extensive treatment of option pricing with an emphasis on the valuation of American options on dividend-paying assets. The book begins with a review of valuation principles for European contingent claims in a financial market in which the underlying asset price follows an Ito process and the interest rate is stochastic and then extends the analysis to American contingent claims. In this context the author lays out the basic valuation principles for American claims and describes instructive representation formulas for their prices. The results are applied to standard American options

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in the Black-Scholes market setting as well as to a variety of exotic contracts such as barrier, capped, and multi-asset options. He also reviews numerical methods for option pricing and compares their relative performance. The author explains all the concepts using standard financial terms and intuitions and relegates proofs to appendices that can be found at the end of each chapter. The book is written so that the material is easily accessible not only to those with a background in stochastic processes and/or derivative securities, but also to those with a more limited exposure to those areas.

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780872893795. This item is printed on demand.

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