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VDQ6CI - JAYVON BOND

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 these products effectively, and stand strong as the only book in its class to make these "exotic" concepts truly accessible.

This book is essential in understanding, investing and risk managing the holy grail of investments - structured products. The book begins by introducing structured products by way of a basic guide so that readers will be able to understand a payoff graphic, read a termsheet or assess a payoff formula, before moving on to the key asset classes and their peculiarities. Readers will then move on to the more advanced subjects such as structured products construction and behaviour during their lifetime. It also explains how to avoid important pitfalls in products across all asset classes, pitfalls that have led to huge losses over recent years, including detailed coverage of counterparty risk, the fall of Lehman Brothers and other key aspects of the financial crisis related to structured products. The second part of the book presents an original approach to implementing structured products in a portfolio. Key features include: A comprehensive list of factors an investor

needs to take into consideration before investing. This makes it a great help to any buyer of structured products; Unbiased advice on product investments across several asset classes: equities, fixed income, foreign exchange and commodities; Guidance on how to implement structured products in a portfolio context; A comprehensive questionnaire that will help investors to define their own investment preferences, allowing for a greater precision when facing investment decisions; An original approach determining the typical distribution of returns for major product types, essential for product classification and optimal portfolio implementation purposes; Written in a fresh, clear and understandable style, with many figures illustrating the products and very little mathematics. This book will enable you to better comprehend the use of structured products in everyday banking, quickly analyzing a product, assessing which of your clients it suits, and recognizing its major pitfalls. You will be able to see the added value versus the cost of a product and if the payoff is compatible with the market expectations.

New regulatory data reveal extensive price discrimination against non-financial clients in the FX derivatives market. The client at the 90th percentile pays an effective spread of 0.5%, while the bottom quarter incur transaction costs of less than 0.02%. Consistent with models of search frictions in over-the-counter markets, dealers charge higher spreads to less sophisticated clients. However, price discrimination is eliminated when clients trade through multi-dealer request-for-quote platforms. We also document that dealers extract rents from captive clients and market opacity, but only for contracts negotiated bilaterally with unsophisticated clients.

Praise for *Handbook of Exchange Rates* "This book is remarkable. I expect it to become the anchor reference for people working in the foreign exchange field." —Richard K. Lyons, Dean and Professor of Finance, Haas School of Business, University of California Berkeley "It is quite easily the most wide ranging treasury expertise on the forex market I have ever come across. I will be keeping a copy close to my fingertips." —Jim O'Neill, Chairman, Goldman Sachs Asset Management How should we evaluate the forecasting power of models? What are appropriate loss functions for major market participants? Is the exchange rate the only means of adjustment? *Handbook of Exchange Rates* answers these questions and many more, equipping readers with the relevant concepts and policies for working in today's international economic climate. Featuring contributions written by leading specialists from the global financial arena, this handbook provides a collection of original ideas on foreign exchange (FX) rates in four succinct sections:

- Overview introduces the history of the FX market and exchange rate regimes, discussing key instruments in the trading environment as well as macro and micro approaches to FX determination.
- Exchange Rate Models and Methods focuses on forecasting exchange rates, featuring methodological contributions on the statistical methods for evaluating forecast performance, parity relationships, fair value models, and flow-based models.
- FX Markets and Products outlines active currency management, currency hedging, hedge accounting; high frequency and algorithmic trading in FX; and FX strategy-based products.
- FX Markets and Poli-

cy explores the current policies in place in global markets and presents a framework for analyzing financial crises. Throughout the book, topics are explored in-depth alongside their founding principles. Each chapter uses real-world examples from the financial industry and concludes with a summary that outlines key points and concepts. *Handbook of Exchange Rates* is an essential reference for fund managers and investors as well as practitioners and researchers working in finance, banking, business, and econometrics. The book also serves as a valuable supplement for courses on economics, business, and international finance at the upper-undergraduate and graduate levels.

The book is a step-by-step guide to derivative products. By distilling the complex mathematics and theory that underlie the subject, Chisholm explains derivative products in straightforward terms, focusing on applications and intuitive explanations wherever possible. Case studies and examples of how the products are used to solve real-world problems, as well as an extensive glossary and material on the latest derivative products make this book a must have for anyone working with derivative products.

Building on the success of his bestselling *Foreign Exchange Options*, Alan Hicks has produced this new and invaluable guide to the use of currency options for corporate treasurers and other financial executives. Setting the principal OTC instruments within the company's risk management framework, he provides an authoritative guide to the characteristics, advantages and uses of currency options in the management and control of foreign exchange risk. Alan Hicks' unique experience allows him to concentrate on the practical application of options as experienced in the real world of foreign exchange, illustrated by the use of case study material throughout the book. Illustrates how FX options are derived from the underlying FX markets. Presents the benefits, costs, risks and rewards associated with various FX option strategies. Demonstrates how options can play a part in any company's FX risk management programme.

One of the great challenges that many participants in foreign exchange (FX) markets face is sifting through the often overwhelming amount of information that is available. Media outlets stream updates on international politics, economics, and other factors that move FX prices twenty-four hours a day. It is difficult to work out what is and what is not important. This book helps its reader overcome these challenges by combining the insights gained from a market practitioner who has traded FX at Goldman Sachs, PIMCO, and Barclays Investment Bank, with textbook-level modern financial macroeconomic theory. The book covers macroeconomics relating to exchange rate determination. While you could obtain this information from a disparate set of sources—textbooks, academic literature, industry research notes, conversations with other market practitioners, and theories cited in media reports—this book brings all of these sources together to translate the information into concrete FX views that are firmly rooted in the macroeconomic theory of risk premiums, interest rates, and inflation, among other topics. The book promotes time consistent thought that avoids the daily temptation to jump from that day's economic narrative to the next. Of particular interest to buy- and sell-side industry practitioners, finance and economics graduate students, academics, and others interested in FX markets, this book teaches its readers how to do this and improve their own trading and understanding of the FX markets.

This new edition presents a reader-friendly textbook with lots of numerical examples and accounts of real-life situations.

Provides all the vital quantitative tools for foreign exchange options in a clear and logical manner.

An essential guide to real-world derivatives trading *FX Derivatives Trader School* is the definitive guide to the technical and

practical knowledge required for successful foreign exchange derivatives trading. Accessible in style and comprehensive in coverage, the book guides the reader through both basic and advanced derivative pricing and risk management topics. The basics of financial markets and trading are covered, plus practical derivatives mathematics is introduced with reference to real-world trading and risk management. Derivative contracts are covered in detail from a trader's perspective using risk profiles and pricing under different derivative models. Analysis is approached generically to enable new products to be understood by breaking the risk into fundamental building blocks. To assist with learning, the book also contains Excel practicals which will deepen understanding and help build useful skills. The book covers a wide variety of topics, including: Derivative exposures within risk management Volatility surface construction Implied volatility and correlation risk Practical tips for students on trading internships and junior traders Market analysis techniques FX derivatives trading requires mathematical aptitude, risk management skill, and the ability to work quickly and accurately under pressure. There is a tremendous gap between option pricing formulas and the knowledge required to be a successful derivatives trader. *FX Derivatives Trader School* is unique in bridging that gap.

In postcrisis Asia, the development of domestic bond markets is increasingly seen as one of the key requirements to strengthen the financial sectors of East Asian countries and to reduce their vulnerabilities to future financial crises. There is a great diversity in terms of the level of bond market development across East Asian countries. Judged by several indicators of bond market development, Hong Kong, China and Singapore are ahead of other countries, followed by a second tier consisting of Korea; Malaysia; and Taipei, China and a third tier consisting of People's Republic of China, Philippines, and Thailand. Indonesia's bond market is perhaps the most nascent among East Asian bond markets. Initiatives to develop bond markets in East Asia should focus on: (i) sustaining a stable macroeconomic environment with low inflation and stable interest rates, (ii) developing a healthy government bond market that would serve as a benchmark for the corporate bond market, (iii) completing the postcrisis agenda of banking sector restructuring, (iv) improving corporate governance, (v) strengthening the regulatory framework for bond market, (vi) rationalizing tax treatment of bonds, (vii) broadening the investor base, and (viii) promoting the growth of regional bond market centers. Since at present there is a great diversity in the levels of bond market development across countries, significant country-specific deciphering of these requirements will be needed for developing country strategies for bond market development.

The only guide focusing entirely on practical approaches to pricing and hedging derivatives. One valuable lesson of the financial crisis was that derivatives and risk practitioners don't really understand the products they're dealing with. Written by a practitioner for practitioners, this book delivers the kind of knowledge and skills traders and finance professionals need to fully understand derivatives and price and hedge them effectively. Most derivatives books are written by academics and are long on theory and short on the day-to-day realities of derivatives trading. Of the few practical guides available, very few of those cover pricing and hedging—two critical topics for traders. What matters to practitioners is what happens on the trading floor—information only seasoned practitioners such as authors Marroni and Perdomo can impart. Lays out proven derivatives pricing and hedging strategies and techniques for equities, FX, fixed income and commodities, as well as multi-assets and cross-assets. Provides expert guidance on the development of structured products, supplemented with a range of practical examples. Packed with real-life examples covering everything from option payout with delta hedging, to

Monte Carlo procedures to common structured products payoffs The Companion Website features all of the examples from the book in Excel complete with source code

Now you can master the art of foreign exchange trading While most currency trading and foreign exchange books focus on international finance theory or simplistic chart-based strategies, *The Art of Currency Trading* is a comprehensive guide that will teach you how to profitably trade currencies in the real world. Author Brent Donnelly has been a successful interbank FX trader for more than 20 years and in this book, he shares the specific strategies and tactics he has used to profit in the forex marketplace. The book helps investors understand and master foreign exchange trading in order to achieve sustainable long-term financial success. The book builds in intensity and depth one topic at a time, starting with the basics and moving on to intermediate then advanced setups and strategies. Whether you are new to currency trading or have years of experience, *The Art of Currency Trading* provides the information you need to learn to trade like an expert. This much-needed guide provides: an insider's view of what drives currency price movements; a clear explanation of how to combine macro fundamentals, technical analysis, behavioral finance and diligent risk management to trade successfully; specific techniques and setups you can use to make money trading foreign exchange; and steps you can take to better understand yourself and improve your trading psychology and discipline. Written for currency traders of all skill levels, international stock and bond investors, corporate treasurers, commodity traders, and asset managers, *The Art of Currency Trading* offers a comprehensive guide to foreign exchange trading written by a noted expert in the field.

Gain a deep, intuitive and technical understanding of practical options theory The main challenges in successful options trading are conceptual, not mathematical. *Volatility: Practical Options Theory* provides financial professionals, academics, students and others with an intuitive as well as technical understanding of both the basic and advanced ideas in options theory to a level that facilitates practical options trading. The approach taken in this book will prove particularly valuable to options traders and other practitioners tasked with making pricing and risk management decisions in an environment where time constraints mean that simplicity and intuition are of greater value than mathematical formalism. The most important areas of options theory, namely implied volatility, delta hedging, time value and the so-called options greeks are explored based on intuitive economic arguments alone before turning to formal models such as the seminal Black-Scholes-Merton model. The reader will understand how the model free approach and mathematical models are related to each other, their underlying theoretical assumptions and their implications to level that facilitates practical implementation. There are several excellent mathematical descriptions of options theory, but few focus on a translational approach to convert the theory into practice. This book emphasizes the translational aspect, while first building an intuitive, technical understanding that allows market makers, portfolio managers, investment managers, risk managers, and other traders to work more effectively within—and beyond—the bounds of everyday practice. Gain a deeper understanding of the assumptions underlying options theory Translate theoretical ideas into practice Develop a more accurate intuition for better time-constrained decision making This book allows its readers to gain more than a superficial understanding of the mechanisms at work in options markets. *Volatility* gives its readers the edge by providing a true bedrock foundation upon which practical knowledge becomes stronger.

Principles of Financial Engineering, Third Edition, is a highly ac-

claimed text on the fast-paced and complex subject of financial engineering. This updated edition describes the "engineering" elements of financial engineering instead of the mathematics underlying it. It shows how to use financial tools to accomplish a goal rather than describing the tools themselves. It lays emphasis on the engineering aspects of derivatives (how to create them) rather than their pricing (how they act) in relation to other instruments, the financial markets, and financial market practices. This volume explains ways to create financial tools and how the tools work together to achieve specific goals. Applications are illustrated using real-world examples. It presents three new chapters on financial engineering in topics ranging from commodity markets to financial engineering applications in hedge fund strategies, correlation swaps, structural models of default, capital structure arbitrage, contingent convertibles, and how to incorporate counterparty risk into derivatives pricing. Poised midway between intuition, actual events, and financial mathematics, this book can be used to solve problems in risk management, taxation, regulation, and above all, pricing. A solutions manual enhances the text by presenting additional cases and solutions to exercises. This latest edition of *Principles of Financial Engineering* is ideal for financial engineers, quantitative analysts in banks and investment houses, and other financial industry professionals. It is also highly recommended to graduate students in financial engineering and financial mathematics programs. The Third Edition presents three new chapters on financial engineering in commodity markets, financial engineering applications in hedge fund strategies, correlation swaps, structural models of default, capital structure arbitrage, contingent convertibles and how to incorporate counterparty risk into derivatives pricing, among other topics. Additions, clarifications, and illustrations throughout the volume show these instruments at work instead of explaining how they should act The solutions manual enhances the text by presenting additional cases and solutions to exercises

There has been an explosive growth in the number of corporates, investors and financial institutions turning to structured products to achieve cost savings, risk controls and yield enhancements. However, the exact nature, risks and applications of these products and solutions can be complex, and problems arise if the fundamental building blocks and principles are not fully understood. This book explains the most popular products and strategies with a focus on everything beyond vanilla options, dealing with these products in a literate yet accessible manner, giving practical applications and case studies. A special emphasis on how the client uses the products, with interviews and descriptions of real-life deals means that it will be possible to see how the products are applied in day-to-day situations – the theory is translated into practice. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Liar's Poker with more lies and more insight, *Traders, Guns & Money* is a sensational insider's view of the business of trading and marketing derivatives for a living. It reveals the nature of the business, the players and how the real money is made and lost. An accessible companion, a wise counsel and a great read. A sensational and controversial first-person account of the business of derivatives trading and the financial products industry. Offers a true insider's view. Funny and poignant, written in a wry and wickedly comic style. Reveals how shareholders, clients, regulators, and the tax paying ordinary public bear most of the risk in the trading rooms. Reveals the story of how one set of clients discovered the perils of unknowns in a derivatives deal. *Traders, Guns & Money* cleverly weaves together: the dazzling world of derivatives and how to work out what you know, don't know and need to know; an insider's, expert witness account of the rise and rules of the

world of derivatives and the astonishing story of how one set of clients discovered the perils of unknowns in a derivatives deal. Benchmark: Liar's Poker 0340767006. Das now offers more lies and is set in today's derivatives market, and Traders Gun's and Money is written not by a journalist but by a world-famous insider. Praise for Foreign Exchange "Tim Weithers starts by telling the reader that foreign exchange is not difficult, just confusing, but Foreign Exchange: A Practical Guide to the FX Markets proves that money is much more exciting than anything it buys. This useful book is a whirlwind tour of the world's largest market, and the tour guide is an expert storyteller, inserting numerous fascinating insights and quirky facts throughout the book." -John R. Taylor, Chairman, CEO and CIO, FX Concepts "The book reflects the author's doctorate from the University of Chicago, several years' experience as an economics professor, and, most recently, a very successful decade as an executive at a huge international bank. These fundamental ingredients are seasoned with bits of wisdom and experience. What results is a very tasty intellectual stew." -Professor Jack Clark Francis, PhD, Professor of Economics and Finance, Bernard Baruch College "In this book, Tim Weithers clearly explains a very complicated subject. Foreign Exchange is full of jargon and conventions that make it very hard for non-professionals to gain a good understanding. Weithers' book is a must for any student or professional who wants to learn the secrets of FX." -Niels O. Nygaard, Director of Financial Mathematics, The University of Chicago "An excellent text for students and practitioners who want to become acquainted with the arcane world of the foreign exchange market." -David DeRosa, PhD, founder, DeRosa Research and Trading, Inc., and Adjunct Professor of Finance, Yale School of Management "Tim Weithers provides a superb introduction to the arcana of foreign exchange markets. While primarily intended for practitioners, the book would be a valuable introduction for students with some knowledge of economics. The text is exceptionally clear with numeric examples and exercises that reinforce concepts. Frequent references are made to the economic theory behind the trading practices." -John F. O'Connell, Professor of Economics, College of the Holy Cross

The book provides detailed descriptions, including more than 550 mathematical formulas, for more than 150 trading strategies across a host of asset classes and trading styles. These include stocks, options, fixed income, futures, ETFs, indexes, commodities, foreign exchange, convertibles, structured assets, volatility, real estate, distressed assets, cash, cryptocurrencies, weather, energy, inflation, global macro, infrastructure, and tax arbitrage. Some strategies are based on machine learning algorithms such as artificial neural networks, Bayes, and k-nearest neighbors. The book also includes source code for illustrating out-of-sample back-testing, around 2,000 bibliographic references, and more than 900 glossary, acronym and math definitions. The presentation is intended to be descriptive and pedagogical and of particular interest to finance practitioners, traders, researchers, academics, and business school and finance program students.

A quick and concise guide to currency options An understanding of currency options is essential for those working in investment and foreign exchange. A Currency Options Primer sets out to give readers a clear guide to how the currency option market functions, offering practical advice on mastering the necessary components and concepts for fully understanding the workings of this market.

The FX options market represents one of the most liquid and strongly competitive markets in the world, and features many technical subtleties that can seriously harm the uninformed and unaware trader. This book is a unique guide to running an FX options book from the market maker perspective. Striking a balance

between mathematical rigour and market practice and written by experienced practitioner Antonio Castagna, the book shows readers how to correctly build an entire volatility surface from the market prices of the main structures. Starting with the basic conventions related to the main FX deals and the basic traded structures of FX options, the book gradually introduces the main tools to cope with the FX volatility risk. It then goes on to review the main concepts of option pricing theory and their application within a Black-Scholes economy and a stochastic volatility environment. The book also introduces models that can be implemented to price and manage FX options before examining the effects of volatility on the profits and losses arising from the hedging activity. Coverage includes: how the Black-Scholes model is used in professional trading activity the most suitable stochastic volatility models sources of profit and loss from the Delta and volatility hedging activity fundamental concepts of smile hedging major market approaches and variations of the Vanna-Volga method volatility-related Greeks in the Black-Scholes model pricing of plain vanilla options, digital options, barrier options and the less well known exotic options tools for monitoring the main risks of an FX options' book The book is accompanied by a CD Rom featuring models in VBA, demonstrating many of the approaches described in the book.

The Front Office Manual is unique, providing clear and direct explanations of tools and techniques relevant to front office work. From how to build a yield curve, to how a swap works, to what exactly 'product control' is supposed to do, this book is essential reading for anyone who works (or wants to work) on the 'sell side'.

Praise for The Volatility Surface "I'm thrilled by the appearance of Jim Gatheral's new book The Volatility Surface. The literature on stochastic volatility is vast, but difficult to penetrate and use. Gatheral's book, by contrast, is accessible and practical. It successfully charts a middle ground between specific examples and general models--achieving remarkable clarity without giving up sophistication, depth, or breadth." --Robert V. Kohn, Professor of Mathematics and Chair, Mathematical Finance Committee, Courant Institute of Mathematical Sciences, New York University "Concise yet comprehensive, equally attentive to both theory and phenomena, this book provides an unsurpassed account of the peculiarities of the implied volatility surface, its consequences for pricing and hedging, and the theories that struggle to explain it."

--Emanuel Derman, author of My Life as a Quant "Jim Gatheral is the wildest practitioner in the business. This very fine book is an outgrowth of the lecture notes prepared for one of the most popular classes at NYU's esteemed Courant Institute. The topics covered are at the forefront of research in mathematical finance and the author's treatment of them is simply the best available in this form." --Peter Carr, PhD, head of Quantitative Financial Research, Bloomberg LP Director of the Masters Program in Mathematical Finance, New York University "Jim Gatheral is an acknowledged master of advanced modeling for derivatives. In The Volatility Surface he reveals the secrets of dealing with the most important but most elusive of financial quantities, volatility." --Paul Wilmott, author and mathematician "As a teacher in the field of mathematical finance, I welcome Jim Gatheral's book as a significant development. Written by a Wall Street practitioner with extensive market and teaching experience, The Volatility Surface gives students access to a level of knowledge on derivatives which was not previously available. I strongly recommend it." --Marco Avellaneda, Director, Division of Mathematical Finance Courant Institute, New York University "Jim Gatheral could not have written a better book." --Bruno Dupire, winner of the 2006 Wilmott Cutting Edge Research Award Quantitative Research, Bloomberg LP

This book covers foreign exchange options from the point of view

of the finance practitioner. It contains everything a quant or trader working in a bank or hedge fund would need to know about the mathematics of foreign exchange—not just the theoretical mathematics covered in other books but also comprehensive coverage of implementation, pricing and calibration. With content developed with input from traders and with examples using real-world data, this book introduces many of the more commonly requested products from FX options trading desks, together with the models that capture the risk characteristics necessary to price these products accurately. Crucially, this book describes the numerical methods required for calibration of these models – an area often neglected in the literature, which is nevertheless of paramount importance in practice. Thorough treatment is given in one unified text to the following features: Correct market conventions for FX volatility surface construction Adjustment for settlement and delayed delivery of options Pricing of vanillas and barrier options under the volatility smile Barrier bending for limiting barrier discontinuity risk near expiry Industry strength partial differential equations in one and several spatial variables using finite differences on nonuniform grids Fourier transform methods for pricing European options using characteristic functions Stochastic and local volatility models, and a mixed stochastic/local volatility model Three-factor long-dated FX model Numerical calibration techniques for all the models in this work The augmented state variable approach for pricing strongly path-dependent options using either partial differential equations or Monte Carlo simulation Connecting mathematically rigorous theory with practice, this is the essential guide to foreign exchange options in the context of the real financial marketplace.

Structured products are sold to a wide range of retail, high net worth and institutional investors, with over £15bn of structured investments sold in the UK in 2009. Based on a non-specialist graduate lecture course given at University College London (UCL), this book provides an invaluable introduction to the fast growing world of derivative investments and the technology used in their design, pricing and structuring. The book gives a comprehensive overview of structuring and trading products based on the author's extensive international experience in structuring investment products across a range of underlying asset classes, including equities, interest rates, credit and hybrids. The product coverage ranges from equity investments such as reverse convertibles and basket correlation products, to credit products such as first-to-default notes and the notorious "CDO2". Written in a simple and accessible manner, this book will be of interest to students, bankers, investors and other finance professionals./a

This publication aims to fill the void between books providing an introduction to derivatives, and advanced books whose target audience are members of quantitative modelling community. In order to appeal to the widest audience, this publication tries to assume the least amount of prior knowledge. The content quickly moves onto more advanced subjects in order to concentrate on more practical and advanced topics. "A master piece to learn in a nutshell all the essentials about volatility with a practical and lively approach. A must read!" Carole Bernard, Equity Derivatives Specialist at Bloomberg "This book could be seen as the 'volatility bible!'" Markus-Alexander Flesch, Head of Sales & Marketing at Eurex "I highly recommend this book both for those new to the equity derivatives business, and for more advanced readers. The balance between theory and practice is struck At-The-Money" Paul Stephens, Head of Institutional Marketing at CBOE "One of the best resources out there for the volatility community" Paul Britton, CEO and Founder of Capstone Investment Advisors "Colin has managed to convey often complex derivative and volatility concepts with an admirable simplicity, a welcome change from

the all-too-dense tomes one usually finds on the subject" Edmund Shing PhD, former Proprietary Trader at BNP Paribas "In a crowded space, Colin has supplied a useful and concise guide" Gary Delany, Director Europe at the Options Industry Council

Exotic options and structured products are two of the most popular financial products over the past ten years and will soon become very important to the emerging markets, especially China. This book first discusses the products' recent development in the world and provides comprehensive overview of the major products. The book also discusses the risks of issuing and buying such products as well as the techniques to price them and to assess the risks. Volatility is the most important factor in determining the return and risk. Therefore, significant part of the book's content discusses how we can measure the volatility by using local and stochastic volatility models — Heston Model and Dupire Model, the volatility surface, the term structure of volatility, variance swaps, and breakeven volatility. The book introduces a set of dimensions which can be used to describe structured products to help readers to classify them. It also describes the more commonly traded exotic options with details. The book discusses key features of each exotic option which can be used to develop structured products and covers their pricing models and when to issue such products that contain such exotic options. This book contains several case studies about how to use the models or techniques to price and hedge risks. These case analyses are illuminating.

Swaps and Other Instruments focuses on the pricing and hedging of swaps, showing how various models work in practice and how they can be built. The book also covers options and interest rates as they relate to swaps, as they are often traded together. The book will include coverage of all the latest swaps including credit, commodity and equity swaps. Exercises and simulations are also provided on an accompanying CD ROM, including Excel spreadsheets enabling the reader to simulate and build their own spreadsheet models.

This book provides a broad description of the financial derivatives business from a practitioner's point of view, with a particular emphasis on fixed income derivatives, a specific development on fixed income derivatives and a practical approach to the field. With particular emphasis on the concrete usage of mathematical models, numerical methods and the pricing methodology, this book is an essential reading for anyone considering a career in derivatives either as a trader, a quant or a structurer.

This book introduces readers to the financial markets, derivatives, structured products and how the products are modelled and implemented by practitioners. In addition, it equips readers with the necessary knowledge of financial markets needed in order to work as product structurers, traders, sales or risk managers. As the book seeks to unify the derivatives modelling and the financial engineering practice in the market, it will be of interest to financial practitioners and academic researchers alike. Further, it takes a different route from the existing financial mathematics books, and will appeal to students and practitioners with or without a scientific background. The book can also be used as a textbook for the following courses: • Financial Mathematics (undergraduate level) • Stochastic Modelling in Finance (postgraduate level) • Financial Markets and Derivatives (undergraduate level) • Structured Products and Solutions (undergraduate/postgraduate level)

Praise for Algorithmic Trading "Algorithmic Trading is an insightful book on quantitative trading written by a seasoned practitioner. What sets this book apart from many others in the space is the emphasis on real examples as opposed to just theory. Concepts are not only described, they are brought to life with actual trad-

ing strategies, which give the reader insight into how and why each strategy was developed, how it was implemented, and even how it was coded. This book is a valuable resource for anyone looking to create their own systematic trading strategies and those involved in manager selection, where the knowledge contained in this book will lead to a more informed and nuanced conversation with managers." —DAREN SMITH, CFA, CAIA, FSA, President and Chief Investment Officer, University of Toronto Asset Management "Using an excellent selection of mean reversion and momentum strategies, Ernie explains the rationale behind each one, shows how to test it, how to improve it, and discusses implementation issues. His book is a careful, detailed exposition of the scientific method applied to strategy development. For serious retail traders, I know of no other book that provides this range of examples and level of detail. His discussions of how regime changes affect strategies, and of risk management, are invaluable bonuses." —Roger Hunter, Mathematician and Algorithmic Trader

This book aims to provide a complete and accessible reference for foreign exchange markets and FX products for anyone working in the private wealth management industry. Dealing primarily with over-the-counter products, the book provides extensive coverage of FX spot, forward, NDF, swaps, options and exotic option transactions in terms of their characteristics, pricing concepts, associated risks and their applications with a focus on wealth management. The book also gives a detailed analysis of many structured FX investment products so that wealth management professionals can understand when to sell them, who are they suitable for, the inherent risks and potential returns, and how they are being structured.

Written by an experienced trader and consultant, Frans de Weert's *Exotic Options Trading* offers a risk-focused approach to the pricing of exotic options. By giving readers the necessary tools to understand exotic options, this book serves as a manual to equip the reader with the skills to price and risk manage the most common and the most complex exotic options. De Weert begins by explaining the risks associated with trading an exotic option before dissecting these risks through a detailed analysis of the actual economics and Greeks rather than solely stating the mathematical formulae. The book limits the use of mathematics to explain exotic options from an economic and risk perspective by means of real life examples leading to a practical interpretation of the mathematical pricing formulae. The book covers conventional options, digital options, barrier options, cliquets, quanto options, outperformance options and variance swaps, and explains difficult concepts in simple terms, with a practical approach that gives the reader a full understanding of every aspect of each exotic option. The book also discusses structured notes with exotic options embedded in them, such as reverse convertibles, callable and puttable reverse convertibles and autocallables and shows the rationale behind these structures and their associated risks. For each exotic option, the author makes clear why there is an investor demand; explains where the risks lie and how this affects the actual pricing; shows how best to hedge any vega or gamma exposure embedded in the exotic option and discusses the skew exposure. By explaining the practical implications for every exotic option and how it affects the price, in addition to the necessary mathematical derivations and tools for pricing exotic options, *Exotic Options Trading* removes the mystique surrounding exotic options in order to give the reader a full understanding of every aspect of each exotic option, creating a useable tool for dealing with exotic options in practice. "Although exotic options are not a new subject in finance, the coverage traditionally afforded by many texts is either too high level or overly mathematical. De Weert's exceptional text fills this gap superbly. It is a rigorous

treatment of a number of exotic structures and includes numerous examples to clearly illustrate the principles. What makes this book unique is that it manages to strike a fantastic balance between the theory and actual trading practice. Although it may be something of an overused phrase to describe this book as compulsory reading, I can assure any reader they will not be disappointed." —Neil Schofield, Training Consultant and author of *Commodity Derivatives: Markets and Applications* "Exotic Options Trading does an excellent job in providing a succinct and exhaustive overview of exotic options. The real edge of this book is that it explains exotic options from a risk and economical perspective and provides a clear link to the actual profit and pricing formulae. In short, a must read for anyone who wants to get deep insights into exotic options and start trading them profitably." —Arturo Bignardi

"For many investors, an intense, 24-hour-a-day, \$1.5 trillion roller-coaster of a market spells "danger"; for readers of *Forex Revolution*, the word is "opportunity." —Michael J. Panzner, vice president, Rabo Securities USA, Inc., and author of *The New Laws of the Stock Market Jungle* "The author possesses an uncommon ability to describe a difficult and rapidly changing marketplace as if seen through a beginner's eyes. A most useful book for anyone that might not have been paying attention these past five years as the market reinvented itself." —Brentin C. Elam, director, Northcoast Asset Management, LLC Foreign currency exchange—"Forex"—is today's #1 new investment opportunity. Revolutions in technology, regulation, and globalization have made Forex trading accessible to every active investor. Only one thing has been missing: An objective, clear "user's guide" to Forex trading. Now it's here—and it's in your hands. Simply and clearly, *Forex Revolution* reveals everything you need to know to trade Forex hands-on—from fundamental and technical trading strategies to the unyielding discipline that's essential to success. In this book, Peter Rosenstreich brings together insider techniques from all over the industry: Traders, banks, Forex firms, even the National Futures Association. You'll find expert guidance on everything from handling 24/7 markets to profiting from the emergence of China. Unlike other books, *Forex Revolution* doesn't require you to subscribe to costly services or purchase expensive tools. Whether you're an individual investor or a money manager new to Forex, this book gives you all you need: Facts, techniques, resources and—above all—the insider's edge. Why Forex has become your #1 profit opportunity How the currency markets became indispensable to the active investor Meet the players, markets, tools, portals, and platforms Everything you should know before you get started Choose the right FX investments Understand currency futures, options, swaps, and more Master both fundamental and technical trading strategies and discover why you need to know both Gut check: What it takes to win in the Forex markets Develop the discipline you need to succeed Foreign Exchange Trading: Today's #1 Opportunity for Explosive Profits! The practical, hands-on Forex trading guide for individual investors No costly subscriptions or expensive tools needed Delivers unbiased, up-to-the-minute techniques you can start profiting from today Covers everything from trading rules to fundamental and technical strategies Realistically assesses risks and pitfalls—and shows how to avoid or mitigate them Forex Isn't Just the World's Biggest Market—It's Your #1 Profit Opportunity! Every day, more than \$1.5 trillion in currency trades are executed. That dwarfs the daily volume of the NYSE, NASDAQ, FTSE, DAX, and Tokyo Nikkei—combined! Today's growing currency volatility has made Forex the place to earn huge profits. Think Forex is just for secretive financiers and central bankers? Not any more! The rules have changed, and this book shows you exactly how to get in on the action. No other book offers as much unbiased, practical, how-to gui-

dance for trading from Forex. Peter Rosenstreich doesn't just present his own techniques—he reveals never-before-published tips and techniques from traders throughout the industry. Above all, Mr. Rosenstreich tells you the whole truth: How currency markets work, how to trade, what the risks are, what to do about them...and what it really takes to win. © Copyright Pearson Education. All rights reserved.

Barrier options are a class of highly path-dependent exotic options which present particular challenges to practitioners in all areas of the financial industry. They are traded heavily as stand-alone contracts in the Foreign Exchange (FX) options market, their trading volume being second only to that of vanilla options. The FX options industry has correspondingly shown great innovation in this class of products and in the models that are used to value and risk-manage them. FX structured products commonly include barrier features, and in order to analyse the effects that these features have on the overall structured product, it is essential first to understand how individual barrier options work and behave. FX Barrier Options takes a quantitative approach to barrier options in FX environments. Its primary perspectives are those of quantitative analysts, both in the front office and in control functions. It presents and explains concepts in a highly intuitive manner throughout, to allow quantitatively minded traders, structurers, marketers, salespeople and software engineers to acquire a more rigorous analytical understanding of these products. The book derives, demonstrates and analyses a wide range of models, modelling techniques and numerical algorithms that can be used for constructing valuation models and risk-management methods.

Discussions focus on the practical realities of the market and demonstrate the behaviour of models based on real and recent market data across a range of currency pairs. It furthermore offers a clear description of the history and evolution of the different types of barrier options, and elucidates a great deal of industry nomenclature and jargon.

Advanced Guidance to Excelling in the FX Market Once you have a textbook understanding of money market and foreign exchange products, turn to FX Options and Structured Products, Second Edition, for the beyond-vanilla options strategies and traded deals proven superior in today's post-credit crisis trading environment. With the thoroughness and balance of theory and practice only Uwe Wystup can deliver, this fully revised edition offers authoritative solutions for the real world in an easy-to-access format. See how specific products actually work through detailed case studies featuring clear examples of FX options, common structures and custom solutions. This complete resource is both a wellspring of ideas and a hands-on guide to structuring and executing your own strategies. Distinguish yourself with a valued skillset by: Working through practical and thought-provoking challenges in more than six dozen exercises, all with complete solutions in a companion volume Gaining a working knowledge of the latest, most popular products, including accumulators, kikos, target forwards and more Getting close to the everyday realities of the FX derivatives market through new, illuminating case studies for corporates, municipalities and private banking FX Options and Structured Products, Second Edition is your go-to road map to the exotic options in FX derivatives.