Interest Rate Risk Management Hong Kong Dollar

Quantitative finance is a combination of economics, accounting, statistics, econometrics, mathematics, stochastic process, and computer science and technology. Increasingly, the tools of financial analysis are being applied to assess, monitor, and mitigate risk, especially in the context of globalization, market volatility, and economic crisis. This two-volume handbook, comprised of over 100 chapters, is the most comprehensive resource in the field to date, integrating the most current theory, methodology, policy, and practical applications. Showcasing contributions from an international array of experts, the Handbook of Quantitative Finance and Risk Management is unparalleled in the breadth and depth of its coverage. Volume 1 presents an overview of quantitative finance and risk management research, covering the essential theories, policies, and empirical methodologies used in the field. Chapters provide in-depth discussion of portfolio theory and investment analysis. Volume 2 covers options and option pricing theory and risk management. Volume 3 presents a wide variety of models and analytical tools. Throughout, the handbook offers illustrative case examples, worked equations, and extensive references; additional features include chapter abstracts, keywords, and author and subject indices. From "arbitrage" to "yield spreads," the Handbook of Quantitative Finance and Risk Management will serve as an essential resource for academics, educators, students, policymakers, and practitioners.

"More than 300 exercises at the end of each chapter provide the opportunity for readers to apply new concepts and test their knowledge. Answers for selected exercises (at the rear of the book) offer additional insights to help readers consolidate their understanding"--

A hands-on guide to the theory and practice of bank credit analysis and ratings In this revised edition, Jonathan Golin and Philippe Delhaise expand on the role of bank credit analysts and the methodology of their practice. Offering investors and practitioners an insider's perspective on how rating agencies assign all-important credit ratings to banks, the book is updated to reflect today's environment of increased oversight and demands for greater transparency. It includes international case studies of bank credit analysis, suggestions and insights for understanding and complying with the Basel Accords, techniques for reviewing asset quality on both quantitative and qualitative bases, explores the restructuring of distressed banks, and much more. Features charts, graphs, and spreadsheet illustrations to further explain topics discussed in the text Includes international case studies from North America, Asia, and Europe that offer readers a global perspective Offers coverage of the Basel Accords on Capital Adequacy and Liquidity and shares the authors' view that a bank could be compliant under those and other regulations without being creditworthy A uniquely practical guide to bank credit analysis as it is currently practiced around the world, The Bank Credit Analysis Handbook, Second Edition is a must-have resource for equity analysts, credit analysts, and bankers, as well as wealth managers and investors.

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"We are pleased to bring you Fixed Income Analysis, which provides authoritative and up-to-date coverage of how investment professionals analyze and manage fixed-income portfolios. As with many of the other titles in the CFA Institute Investment Series, the content for this book is drawn from the official CFA Program curriculum. As such, readers can rely on the content of this book to be current, globally relevant, and practical. The content was developed in partnership by a team of distinguished academics and practitioners, chosen for their acknowledged expertise in the field, and guided by CFA Institute. It is written specifically with the investment practitioner in mind and provides numerous examples and practice problems that reinforce the learning outcomes and demonstrate real-world applicability"--

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This book provides different financial models based on options to predict underlying asset price and design the risk hedging strategies. Authors of the book have made theoretical innovation to these models to enable the models to be applicable to real market. The book also introduces risk management and hedging strategies based on different criterions. These strategies provide practical guide for real option trading. This book studies the classical stochastic volatility and deterministic volatility models. For the former, the classical Heston model is integrated with volatility term structure. The correlation of Heston model is considered to be variable. For the latter, the local volatility model is improved from experience of financial practice. The improved local volatility surface is then used for price forecasting. VaR and CVaR are employed as standard criterions for risk management. The options trading strategies are also designed combining different types of options and they have been proven to be profitable in real market. This book is a combination of theory and practice. Users will find the applications of these financial models in real market to be effective and efficient.

The definitive guide to fixed income valuation and risk analysis The Trilogy in Fixed Income Valuation and Risk Analysiscomprehensively covers the most definitive work on interest raterisk, term structure analysis, and credit risk. The first book oninterest rate risk modeling examines virtually every well-known IRRmodel used for pricing and risk analysis of various fixed incomesecurities and their derivatives. The companion CD-ROM containnumerous formulas and programming tools that allow readers tobetter model risk and value fixed income securities. Thiscomprehensive resource provides readers with the hands-oninformation and software needed to succeed in this financialarena.

In the aftermath of the financial crisis of 2008, many financial institutions have been exploring new methods to measure investment product risk. Lawmakers have been developing new rules that protect investors better than before. The purpose is to mitigate the risk of financial institutions that distribute investment products to their clients. This book presents professional views on investment product risk and analyzes complex investment product risk from various perspectives. Contributed by lawyers, risk managers, IT engineers and scholars, this book is an essential-read for

financial regulators, bankers, investment advisors, financial engineers, risk managers, students and researchers.
Seminar paper from the year 2006 in the subject Business economics - Banking, Stock Exchanges, Insurance, Accounting, grade: A+, University of Westminster, course: Financial Derivatives, 47 entries in the bibliography, language: English, abstract: The increased volatility in the financial products world has raised concern about new possibilities of Risk Management leading into increased use of structured products. Credit derivatives are financial instruments to manage risk. They isolate such risk from the underlying financial asset. This essay, firstly, is going to examine the impact on swap products as a tool in Risk Management followed by an examination of key areas in structured products development that have experienced the strongest growth in the last decade. For both types, the current theory and pricing will be outlined followed by a demonstration of some characteristic applications in Financial Risk Management.
Held at Oakland University, School of Business Administration, Department of Accounting and Finance. This book provides a summary of state-of-the-art methods and research in the analysis of credit. As such, it offers very useful insights into this vital area of finance, which has too often been under-researched and little-taught in academia. Including an overview of processes that are utilized for estimating the probability of default and the loss given default for a wide array of debts, the book will also be useful in evaluating individual loans and bonds, as well as managing entire portfolios of such assets. Each chapter is written by authors who presented and discussed their contemporary research and knowledge at the Third International Conference on Credit Analysis and Risk Management, held on August 21–22, 2014 at the Department of Accounting and Finance, School of Business administration, Oakland University. This collection of writings by these experts in the field is uniquely designed to enhance the understanding of credit analysis in a fashion that permits a broad perspective on the science and art of credit analysis.
Advances in Fixed Income Valuation Modeling and Risk Management provides in-depth examinations by thirty-one expert research and opinion leaders on topics such as: problems encountered in valuing interest rate derivatives, tax effects in U.S. government bond markets, portfolio risk management, valuation of treasury bond futures contract's embedded options, and risk analysis of international bonds.
Written in a straightforward, clearly structured manner with extensive use of worked examples, this easy to use book gives you an explanation of both basic and advanced principles for the valuation of interest rate derivatives and their hedging applications.
Practical tools and advice for managing financial risk, updated for a post-crisis world Advanced Financial Risk Management bridges the gap between the idealized assumptions used for risk valuation and the realities that must be reflected in management actions. It explains, in detailed yet easy-to-understand terms, the analytics of these issues from

A to Z, and lays out a comprehensive strategy for risk management measurement, objectives, and hedging techniques that apply to all types of institutions. Written by experienced risk managers, the book covers everything from the basics of present value, forward rates, and interest rate compounding to the wide variety of alternative term structure models. Revised and updated with lessons from the 2007-2010 financial crisis, Advanced Financial Risk Management outlines a framework for fully integrated risk management. Credit risk, market risk, asset and liability management, and performance measurement have historically been thought of as separate disciplines, but recent developments in financial theory and computer science now allow these views of risk to be analyzed on a more integrated basis. The book presents a performance measurement approach that goes far beyond traditional capital allocation techniques to measure risk-adjusted shareholder value creation, and supplements this strategic view of integrated risk with step-by-step tools and techniques for constructing a risk management system that achieves these objectives. Practical tools for managing risk in the financial world Updated to include the most recent events that have influenced risk management Topics covered include the basics of present value, forward rates, and interest rate compounding; American vs. European fixed income options; default probability models; prepayment models; mortality models; and alternatives to the Vasicek model Comprehensive and in-depth, Advanced Financial Risk Management is an essential resource for anyone working in the financial field.

This book was written from the perspective of international accounting to show how risk mitigation applies to the multinational firms with complex global transactions and assets. It analyses the interplay of currencies, exchange rates, interest rates, and accounting systems. Financial risk management is a specialized area of international accounting that requires specific training, tools and techniques, if one is to be successful in mitigating risk for an international business. Financial risk management refers to the practices used by corporate finance managers and accountants to limit and control uncertainty in the firm’s total portfolio. Financial risk management aims to minimize the risk of loss from unexpected changes in the prices of currencies, interest rates, commodities, and equities. In the context of international accounting, financial risk management also contains an element of political, legal and “culture” risk—exposure to uncertainty in the outcomes of business transactions and asset transfers that comes with most international business operations. Risk management has become an integral part of international business strategy, and accountants use quantitative tools to measure and analyze risk. The job of the Chief Financial Officer is to identify and address all types of risk, establish support and control mechanisms for dealing with it, and set the course for the risk management team in terms of its policies and objectives. The financial practices commonly employed include diversification; asset allocation ; and hedging. These practices are examined in light of their applications for international business, where accountants must cope with many more types and degrees of risk. A firm's long-term strategy, such as investment risk, credit risk, and insurance risk are the basis focus for a financial analysis.

A proven way to manage risk in today's business world Understanding how the risk process works is a critical concept that business professionals must come to learn. For those who must understand the fundamentals of risk management quickly, without getting caught up in jargon, theory, mathematics, and formulas, Practical Risk Management is the perfect read. Written in a clear, fast-paced and easily digestible style, this book explains the practical challenges associated with risk management and how-by focusing on accountability, governance, risk appetite, liquidity, client risks, automated and manual processes, tools and diagnostics-they can be overcome. After finishing this book, readers will have a solid understanding of the risk process, know which issues/questions are of critical importance, and be able to determine how their specific risk problems can be minimized or avoided. Erik Banks (Redding, CT) is currently Chief Risk Officer for Element Re. Prior to that he spent several years at Merrill Lynch in market/credit risk management roles in London, Tokyo, Hong Kong, and the United States. He is also adjunct Professor of Finance at the University of Connecticut, where he teaches MBA students. Richard Dunn (London, UK) works for Merrill Lynch. He single-handedly restructured Merrill Lynch's risk function post in 1998 into its current form.

Accompanying CD-ROM contains English translations of relevant Chinese regulations.

 Fully updated version of text formerly used for training by BPP Diagrammatic representation of deal structures, pricing, and modeling Full glossary of terms International perspective, examples in US$ Clear logical explanation of processes, markets, and products This introduction to the Currency Risk Management series of books explains the nature of risk, how it is measured, and the short and long-term implications for business. It examines the concept of a broad policy towards currency risk management and in particular whether a business should seek to limit or hedge its exposure. A description is given of transaction, translation and economic exposure and methods for quantifying with a view to establishing a risk management strategy. This expansive new range of risk management texts has undergone extensive re-writing to give each book in the series an international perspective. Each explains and analyses core aspects of risk assessment and management in a way invaluable to students and useful to practitioners. All of these titles adopt a practical and clear approach to their subject. All are fully updated versions of a series of books previously produced by training experts at BPP.

"Created for banking and finance professionals with a desire to expand their management skillset, this book focuses on how banks manage assets and liabilities, set up governance structures to minimize risks, and approach such critical areas as regulatory disclosures, interest rates, and risk hedging. It was written by the experts at the world-renowned

Hong Kong Institute of Bankers, an organization dedicated to providing the international banking community with education and training"--

This unique resource provides simulation techniques for financial risk managers ensuring you become well versed in many recent innovations, including Gibbs sampling, the use of heavy-tailed distributions in VaR calculations, construction of volatility smile, and state space modeling. The authors illustrate key concepts with examples and case studies you can reproduce using either S-PLUS® or Visual Basic® and provide exercises so you can apply new concepts and test your knowledge. Simulation Techniques in Financial Risk Management is invaluable both as a resource for risk managers in the financial and actuarial industries and as a coursebook for upper-level undergraduate and graduate courses in simulation and risk management.

Bank Asset and Liability ManagementJohn Wiley & Sons

Credit Risk Management for Indian Banks is a one-stop reference book for practising credit risk professionals in the Indian banking sector. This is the first book of its kind, which is exclusively targets the practical needs of Indian bankers. It lays more emphasis on the ground realities of Indian banking and enunciates principles and guidelines of credit risk management based on real-life situations.

This is a complete guide to the pricing and risk management of convertible bond portfolios. Convertible bonds can be complex because they have both equity and debt like features and new market entrants will usually find that they have either a knowledge of fixed income mathematics or of equity derivatives and therefore have no idea how to incorporate credit and equity together into their existing pricing tools. Part I of the book covers the impact that the 2008 credit crunch has had on the markets, it then shows how to build up a convertible bond and introduces the reader to the traditional convertible vocabulary of yield to put, premium, conversion ratio, delta, gamma, vega and parity. The market of stock borrowing and lending will also be covered in detail. Using an intuitive approach based on the Jensen inequality, the authors will also show the advantages of using a hybrid to add value - pre 2008, many investors labelled convertible bonds as 'investing with no downside', there are of course plenty of 2008 examples to prove that they were wrong. The authors then go onto give a complete explanation of the different features that can be embedded in convertible bond. Part II shows readers how to price convertibles. It covers the different parameters used in valuation models: credit spreads, volatility, interest rates and borrow fees and Maturity. Part III covers investment strategies for equity, fixed income and hedge fund investors and includes dynamic hedging and convertible arbitrage. Part IV explains the all important risk management part of the process in detail. This is a highly practical book, all products priced are real world examples and numerical examples are not limited to hypothetical convertibles. It is a must read for anyone wanting to safely get into this highly liquid, high return market.

This Basel Core Principles (BCP) for Effective Banking Supervision Detailed Assessment Report has been prepared in the context of the Financial Sector Assessment Program for the People’s Republic of China–Hong Kong Special Administrative Region (HKSAR). The Hong Kong Monetary Authority (HKMA) supervises a major international financial center which was affected, though not significantly so, by the financial crisis. The HKMA is maintaining its commitment to the international regulatory reform agenda and is an early adopter of many standards. Supervisory practices, standards, and approaches are well integrated, risk based and of very high quality. There is one area in relation to the overarching legislative framework and powers which warrants further attention. The HKMA enjoys clear de facto but not de jure operational independence. There are two important cross border dimensions for Hong Kong as an international financial center. One is related to HKSAR’s significant position as a host supervisor. The second is the increasing importance of Mainland China in the current portfolios and prospects of the locally incorporated institutions, and indeed in the choice of HKSAR as a platform for overseas institutions to establish relationships with Mainland China.

In a large sample of East Asian nonfinancial corporations, firms using foreign currency derivatives had distinctive characteristics, such as larger size and foreign debt exposures. Unlike in studies of U.S. firms, there was only weak evidence that liquidity-constrained firms with greater growth opportunities hedged more. Firms appeared to use foreign earnings as a substitute for hedging with derivatives, and to engage in "selective" hedging. There was no evidence that East Asian firms eliminated their foreign exchange exposure by using derivatives. And firms using derivatives before the crisis performed just as poorly as nonhedgers during the crisis.

Modernizing China: Investing in Soft Infastructure

In an age where companies and financial institutions are keenly focused on managing the financial risk of their operations, the implementation of quantitative methods and models has been of tremendous help. Tools such as VaR, credit VaR, risk-adjusted returns, and scenario analyses have given institutions the means to quantify and understand their risk profiles. However, the focus on quantitative risk management, while important, can sometimes be over-emphasized--at the expense of logic and experience. At its core, the successful management of risk is still largely an "art." The Simple Rules of Risk takes a fresh look at the qualitative aspects of risk management. It also considers how qualitative approaches can make optimal use of the mathematical aspects of risk management to create the most effective framework possible.

Book and CDROM include the important topics and cutting-edge research in financial derivatives and risk management.

Interest rate volatility can wreak havoc with the balance sheets of institutional investors, traders, and corporations. In this important book, leading experts in the field discuss methods for measuring and hedging interest rate risk. The book covers basic techniques, as well as state-of-the-art applications. Specific topics include portfolio risk management, value-at-risk, yield curve risk, interest rate models, advanced risk measurements, interest rate swaps, and measuring and forecasting interest rate volatility.

The HKIB Certification Series offers readers a comprehensive overview of the modern banking industry. Drawing on material from some of Wiley?s top international authors and supplemented with data and cased from local experts, the series offers the Hong Kong banking professional complete coverage of the AHKIB exam. The series also serves as a useful reference for anyone involved in the Hong Kong finance industry.

First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

Risk Management Post Financial Crisis: A Period of Monetary Easing provides further insights into postcrisis developments in the global economic and financial environment including advances in measuring and reporting risk and liquidity. Contributions come from leading banks, international organisations and worldrenowned universities.

The Banker's Handbook on Credit Risk shows you how to comply with Basel II regulations on credit risk step by step, building on the basics in credit risk up to advanced credit risk methodologies. This advanced credit/risk management book takes a "new tools" approach to Basel II implementation. The hands-on applications covered in this book are vast, including areas of Basel II banking risk requirements (credit risk, credit spreads, default risk, value at risk, market risk, and so forth) and financial analysis (exotic options and valuation), to risk analysis (stochastic forecasting, risk-based Monte Carlo simulation, portfolio optimization) and real options analysis (strategic options and decision analysis). This book is targeted at banking practitioners and financial analysts who require the algorithms, examples, models, and insights in solving more advanced and even esoteric problems. The book comes complete with a DVD filled with sample modeling videos, case studies, and software applications to help the reader get started immediately. The various trial software applications included allows the reader to quickly access the approximately 670 modeling functions, 250 analytical model templates, and powerful risk-based simulation software to help in the understanding and learning of the concepts covered in the book, and also to use the embedded functions and algorithms in their own models. In addition, the reader can get started quickly in running risk-based Monte Carlo simulations, run advanced forecasting methods, and perform optimization on a myriad of situations, as well as structure and solve customized real options and financial options problems. * Only book to show bankers step by step how to comply with Basel II regulations on credit risk * Over 150 hands-on software applications included on the DVD accompanying the book, including sample modeling videos * Provides all the latest quantitative tools

This volume, edited by David Folkerts-Landau and Marcel Cassard, consists of papers presented at a conference held in Hong Kong SAR that was hosted by the IMF and the Hong Kong Monetary Authority. It focuses on a wide range of issues confronting policymakers in managing their sovereign assets and liabilities in a world of mobile capital and integrated

capital markets. Topics include public debt management strategy, central bank reserves management, technical and quantitive aspects of risk management, and credit costs and borrowing capacity in optimizing debt management. The papers draw on experiences of policymakers and private sector participants actively involved in formulating and implementing debt and reserves policy.
This dissertation, "Mathematical Models and Numerical Algorithms for Option Pricing and Optimal Trading" by Na, Song, ??, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: ?Research conducted in mathematical finance focuses on the quantitative modeling of financial markets. It allows one to solve financial problems by using mathematical methods and provides understanding and prediction of the complicated financial behaviors. In this thesis, efforts are devoted to derive and extend stochastic optimization models in financial economics and establish practical algorithms for representing and solving problems in mathematical finance. An option gives the holder the right, but not the obligation, to buy or sell an underlying asset at a specified strike price on or before a specified date. In this thesis, a valuation model for a perpetual convertible bond is developed when the price dynamics of the underlying share are governed by Markovian regime-switching models. By making use of the relationship between the convertible bond and an American option, the valuation of a perpetual convertible bond can be transformed into an optimal stopping problem. A novel approach is also proposed to discuss an optimal inventory level of a retail product from a real option perspective in this thesis. The expected present value of the net profit from selling the product which is the objective function of the optimal inventory problem can be given by the actuarial value of a real option. Hence, option pricing techniques are adopted to solve the optimal inventory problem in this thesis. The goal of risk management is to eliminate or minimize the level of risk associated with a business operation. In the risk measurement literature, there is relatively little amount of work focusing on the risk measurement and management of interest rate instruments. This thesis concerns about building a risk measurement framework based on some modern risk measures, such as Value-at-Risk (VaR) and Expected Shortfall (ES), for describing and quantifying the risk of interest rate sensitive instruments. From the lessons of the recent financial turmoils, it is understood that maximizing profits is not the only objective that needs to be taken into account. The consideration for risk control is of primal importance. Hence, an optimal submission problem of bid and ask quotes in the presence of risk constraints is studied in this thesis. The optimal submission problem of bid and ask quotes is formulated as a stochastic optimal control problem. Portfolio management is a professional management of various securities and assets in order to

match investment objectives and balance risk against performance. Different choices of time series models for asset price may lead to different portfolio management strategies. In this thesis, a discrete-time dynamic programming approach which is flexible enough to deal with the optimal asset allocation problem under a general stochastic dynamical system is explored. It's also interesting to analyze the implications of the heteroscedastic effect described by a continuous-time stochastic volatility model for evaluating risk of a cash management problem. In this thesis, a continuous-time dynamic programming approach is employed to investigate the cash management problem under stochastic volatility model and constant volatility model respectively. DOI: 10.5353/th_b5066216 Subjects: Options (Finance) - Prices - Mathematical models Options (Finance) - Mathematical models

The importance of managing credit and credit risks carefully and appropriately cannot be overestimated. The very success or failure of a bank and the banking industry in general may well depend on how credit risk is handled. Banking professionals must be fully versed in the risks associated with credit operations and how to manage those risks. This up-to-date volume is an invaluable reference and study tool that delves deep into issues associated with credit risk management. Credit Risk Management from the Hong Kong Institute of Bankers (HKIB)discusses the various ways through which banks manage risks. Essential for candidates studying for the HKIB Associateship Examination, it can also help those who want to acquire a deeper understanding of how and why banks make decisions and set up processes that lower their risk. Topics covered in this book include: Active credit portfolio management Risk management, pricing, and capital adequacy Capital requirements for banks Approaches to credit risk management Structural models and probability of default Techniques to determine loss given default Derivatives and structured products