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Contemporary Quantitative Finance Carl Chiarella, Alexander Novikov, 2010-07-23 This volume contains a collection of papers dedicated to Professor Eckhard Platen to celebrate his 60th birthday which occurred in 2009 The contributions have been written by a number of his colleagues and co authors All papers have been viewed and presented as keynote talks at the international conference Quantitative Methods in Finance QMF in Sydney in December 2009 The QMF Conference Series was initiated by Eckhard Platen in 1993 when he was at the Australian National University ANU in Canberra Since joining UTS in 1997 the conference came to be organised on a much larger scale and has grown to become a significant international event in quantitative finance Professor Platen has held the Chair of Quantitative Finance at the University of Technology Sydney UTS jointly in the Faculties of Business and Science since 1997 Prior to this appointment he was the Founding Head of the Centre for Financial Mathematics at the Institute of Advanced Studies at ANU a position to which he was appointed in 1994 Eckhard completed a PhD in Mathematics at the Technical University in Dresden in 1975 and in 1985 obtained his Doctor of Science degree Habilitation degree in the German system from the Academy of Sciences in Berlin where he headed the Stochastics group at the Weierstrass Institute

Quantitative Finance T. Wake Epps, 2009-03-16 A rigorous yet accessible

introduction to essential topics in mathematical finance Presented as a course on the topic Quantitative Finance traces the evolution of financial theory and provides an overview of core topics associated with financial investments With its thorough explanations and use of real world examples this book carefully outlines instructions and techniques for working with essential topics found within quantitative finance including portfolio theory pricing of derivatives decision theory and the empirical behavior of prices The author begins with introductory chapters on mathematical analysis and probability theory which provide the needed tools for modeling portfolio choice and pricing in discrete time Next a review of the basic arithmetic of compounding as well as the relationships that exist among bond prices and spot and forward interest rates is presented Additional topics covered include Dividend discount models Markowitz mean variance theory The Capital Asset Pricing Model Static portfolio theory based on the expected utility paradigm Familiar probability models for marginal distributions of returns and the dynamic behavior of security prices The final chapters of the book delve into the paradigms of pricing and present the application of martingale pricing in advanced models of price dynamics Also included is a step by step discussion on the use of Fourier methods to solve for arbitrage free prices when underlying price dynamics are modeled in realistic but complex ways Throughout the book the author presents insight on current approaches along with comments on the unique difficulties that exist in the study of financial markets These reflections illustrate the evolving nature of the financial field and help readers develop analytical techniques and tools to apply in their everyday work Exercises at the end of most chapters progress in difficulty and selected worked out solutions are available in the appendix In addition numerous empirical projects utilize MATLAB and Minitab to demonstrate the mathematical tools of finance for modeling the behavior of prices and markets Data sets that accompany these projects can be found via the book's FTP site Quantitative Finance is an excellent book for courses in quantitative finance or financial engineering at the upper undergraduate and graduate levels It is also a valuable resource for practitioners in related fields including engineering finance and economics

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