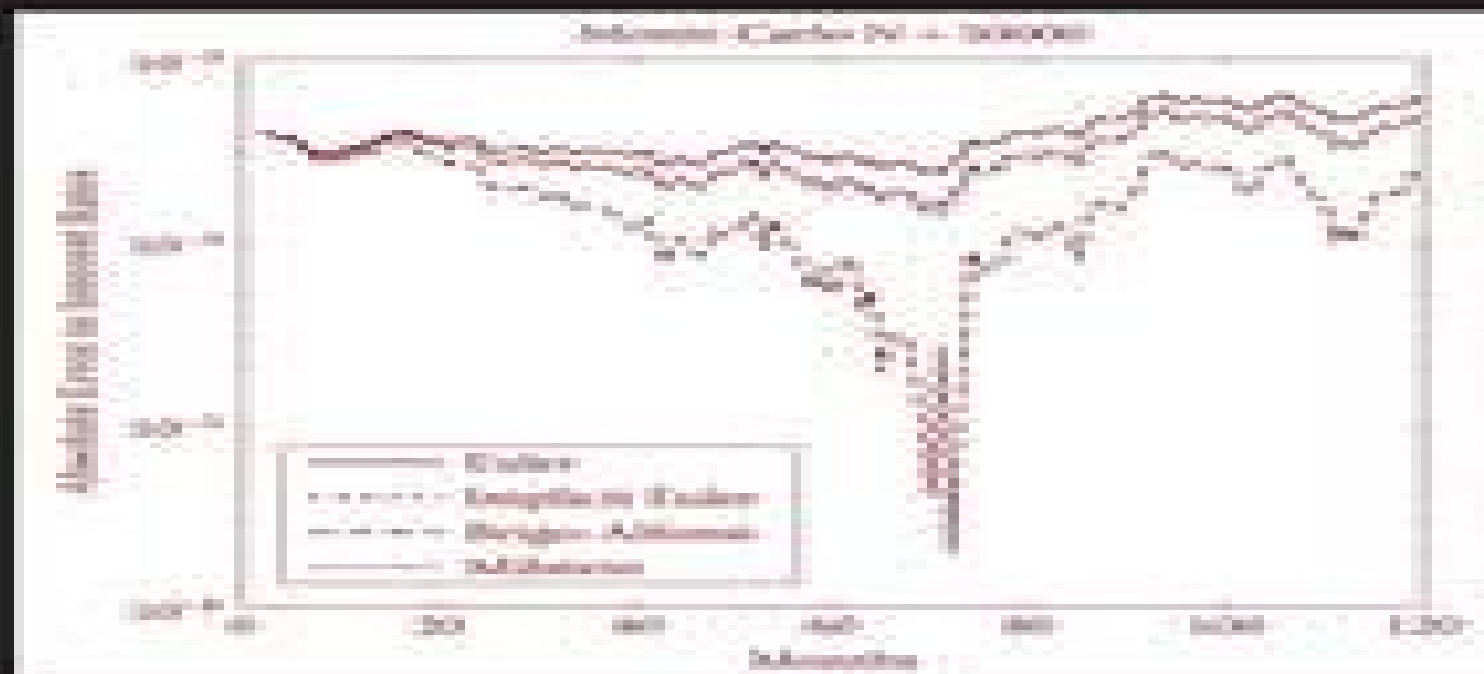


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Numerical Methods for Finance



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Numerical Methods In Finance

You-lan Zhu, Xiaonan Wu, I-Liang Chern



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Advanced Mathematical Methods for Finance Julia Di Nunno, Bernt Øksendal, 2014-10-07 This book presents innovations in the mathematical foundations of financial analysis and numerical methods for finance and applications to the modeling of risk The topics selected include measures of risk credit contagion insider trading information in finance stochastic control and its applications to portfolio choices and liquidation models of liquidity pricing and hedging The models presented are based on the use of Brownian motion Levy processes and jump diffusions Moreover fractional Brownian motion and ambit processes are also introduced at various levels The chosen blend of topics gives an overview of the frontiers of mathematics for finance New results new methods and new models are all introduced in different forms according to the subject Additionally the existing literature on the topic is reviewed The diversity of the topics makes the book suitable for graduate students researchers and practitioners in the areas of financial modeling and quantitative finance The chapters will also be of interest to experts in the financial market interested in new methods and products This volume presents the results of the European ESF research networking program Advanced Mathematical Methods for Finance

Market Risk Analysis, Quantitative Methods in Finance Carol Alexander, 2008-04-30 Written by leading market risk academic Professor Carol Alexander Quantitative Methods in Finance forms part one of the Market Risk Analysis four volume set Starting from the basics this book helps readers to take the first step towards becoming a properly qualified financial risk manager and asset manager roles that are currently in huge demand Accessible to intelligent readers with a moderate understanding of mathematics at high school level or to anyone with a university degree in mathematics physics or engineering no prior knowledge of finance is necessary Instead the emphasis is on understanding ideas rather than on mathematical rigour meaning that this book offers a fast track introduction to financial analysis for readers with some quantitative background highlighting those areas of mathematics that are particularly relevant to solving problems in financial risk management and asset management Unique to this book is a focus on both continuous and discrete time finance so that Quantitative Methods in Finance is not only about the application

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