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Advanced Quantitative Finance with C++

Create and implement mathematical models in C++ using Quantitative Finance

Alonso Peña, Ph.D.

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Advanced Quantitative Finance With C Pena Alonso

Paul Wilmott



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Mastering R for Quantitative Finance Edina Berlinger, Ferenc Illés, Milán Badics, Ádám Banai, Gergely Daróczi, Barbara Dömötör, Gergely Gabler, Dániel Havran, Péter Juhász, István Margitai, Balázs Márkus, Péter Medvegyev, Julia Molnár, Balázs Árpád Szűcs, Ágnes Tuza, Tamás Vadász, Kata Váradi, Ágnes Vidovics-Dancs, 2015-03-10 This book is intended for those who want to learn how to use R's capabilities to build models in quantitative finance at a more advanced level If you wish to perfectly take up the rhythm of the chapters you need to be at an intermediate level in quantitative finance and you also need to have a reasonable knowledge of R

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Hautsch, Ludger Overbeck, 2008-08-26 Recent years have witnessed a growing importance of quantitative methods in both financial research and industry This development requires the use of advanced techniques on a theoretical and applied level especially when it comes to the quantification of risk and the valuation of modern financial products Applied Quantitative Finance 2nd edition provides a comprehensive and state of the art treatment of cutting edge topics and methods It provides solutions to and presents theoretical developments in many practical problems such as risk management pricing of credit derivatives quantification of volatility and copula modelling The synthesis of theory and practice supported by computational tools is reflected in the selection of topics as well as in a finely tuned balance of scientific contributions on practical implementation and theoretical concepts This linkage between theory and practice offers theoreticians insights into considerations of applicability and vice versa provides practitioners comfortable access to new techniques in quantitative finance Themes that are dominant in current research and which are presented in this book include among others the valuation of Collateralized Debt Obligations CDOs the high frequency analysis of market liquidity the pricing of Bermuda options and realized volatility All Quantlets for the calculation of the given examples are downloadable from the Springer web pages

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who want to complement their theoretical studies with robust coding skills *Advanced Quantitative Finance* William Johnson, 2024-10-18 *Advanced Quantitative Finance* Trading Risk and Portfolio Optimization unfolds as an essential guide for anyone eager to delve into the sophisticated world of modern finance This comprehensive text blends theoretical underpinnings with practical insights offering a robust exploration of the quantitative techniques driving today's markets Each chapter systematically demystifies complex subjects from risk management and derivatives pricing to algorithmic trading and asset pricing models empowering readers to grasp the nuances of financial analysis with clarity and precision Structured for both novices and seasoned professionals the book navigates the latest advancements in machine learning big data analytics and behavioral finance presenting them as indispensable tools for the contemporary financial landscape With a focus on actionable knowledge and strategic applications readers will gain the proficiency needed to enhance their decision making optimize investment portfolios and effectively manage risk in an ever evolving economic environment This book is your invitation to not only understand quantitative finance but to excel in it unlocking new levels of insight and innovation in your financial pursuits **Applied Quantitative Finance** Wolfgang Karl Härdle, Nikolaus Hautsch, Ludger

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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 Handbook of Quantitative Finance and Risk Management, 2010

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