



Advanced Quantitative Finance with C++

• Comprehensive implementation of mathematical models in C++ using
• Class-based design patterns

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Advanced Quantitative Finance With C

Alonso Peña

Advanced Quantitative Finance With C:

Advanced Quantitative Finance with C++ Alonso Peña, 2014 The book takes the reader through a fast but structured crash course in quantitative finance from theory to practice. If you are a quantitative analyst, risk manager, actuary or a professional working in the field of quantitative finance and want a quick hands on introduction to the pricing of financial derivatives this book is ideal for you. You should be familiar with the basic programming concepts and C programming language. You should also be acquainted with calculus of undergraduate level.

Advanced Quantitative Finance with C++ Alonso Peña, 2015-02-13 Create and implement mathematical models in C using quantitative finance. Overview Describes the key mathematical models used for price, equity, currency, interest rates and credit derivatives. The complex models are explained step by step along with a flow chart of every implementation. Illustrates each asset class with fully solved C examples both basic and advanced that support and complement the text. In Detail This book will introduce you to the key mathematical models used to price financial derivatives as well as the implementation of main numerical models used to solve them. In particular, equity, currency, interest rates and credit derivatives are discussed. In the first part of the book, the main mathematical models used in the world of financial derivatives are discussed. Next, the numerical methods used to solve the mathematical models are presented. Finally, both the mathematical models and the numerical methods are used to solve some concrete problems in equity, forex, interest rate and credit derivatives. The models used include the Black Scholes and Garman Kohlhagen models, the LIBOR market model, structural and intensity credit models. The numerical methods described are Monte Carlo simulation for single and multiple assets, Binomial Trees and Finite Difference Methods. You will find implementation of concrete problems including European Call, Equity Basket, Currency European Call, FX Barrier Option, Interest Rate Swap, Bankruptcy and Credit Default Swap in C. What you will learn from this book: Solve complex pricing problems in financial derivatives using a structured approach with the Bento Box template. Explore some key numerical methods including binomial trees, finite differences and Monte Carlo simulation. Develop your understanding of equity, forex, interest rate and credit derivatives through concrete examples. Implement simple and complex derivative instruments in C. Discover the most important mathematical models used in quantitative finance today to price derivative instruments. Effectively incorporate object oriented programming (OOP) principles into the code. Approach: The book takes the reader through a fast but structured crash course in quantitative finance from theory to practice.

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- Design flexible option payoff hierarchies for code reuse.
- Apply advanced numerical techniques such as Monte Carlo binomial, trinomial trees and finite difference methods.
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apply the concepts and sample code to some of the most common problems faced in the analysis of options and derivative contracts *Generalized Integral Transforms In Mathematical Finance* Andrey Itkin,Alexander Lipton,Dmitry Muravey,2021-10-12 This book describes several techniques first invented in physics for solving problems of heat and mass transfer and applies them to various problems of mathematical finance defined in domains with moving boundaries These problems include a semi closed form pricing of options in the one factor models with time dependent barriers Bachelier Hull White CIR CEV b analyzing an interconnected banking system in the structural credit risk model with default contagion c finding first hitting time density for a reducible diffusion process d describing the exercise boundary of American options e calculating default boundary for the structured default problem f deriving a semi closed form solution for optimal mean reverting trading strategies to mention but some The main methods used in this book are generalized integral transforms and heat potentials To find a semi closed form solution we need to solve a linear or nonlinear Volterra equation of the second kind and then represent the option price as a one dimensional integral Our analysis shows that these methods are computationally more efficient than the corresponding finite difference methods for the backward or forward Kolmogorov PDEs partial differential equations while providing better accuracy and stability We extend a large number of known results by either providing solutions on complementary or extended domains where the solution is not known yet or modifying these techniques and applying them to new types of equations such as the Bessel process The book contains several novel results broadly applicable in physics mathematics and engineering **Research in Engineering and Management of Advanced Manufacturing Systems** Vladimir Modrak,Pavol Semančo,Michal Balog,2014-12-24 Selected peer reviewed papers from the 4th International Conference on Management of Manufacturing Systems MMS 2014 October 1 3 2014 High Tatras Slovakia

Numerical Methods in Finance with C++ Maciej J. Capiński,Tomasz Zastawniak,2012-08-02 Driven by concrete computational problems in quantitative finance this book provides aspiring quant developers with the numerical techniques and programming skills they need The authors start from scratch so the reader does not need any previous experience of C Beginning with straightforward option pricing on binomial trees the book gradually progresses towards more advanced topics including nonlinear solvers Monte Carlo techniques for path dependent derivative securities finite difference methods for partial differential equations and American option pricing by solving a linear complementarity problem Further material including solutions to all exercises and C code is available online The book is ideal preparation for work as an entry level quant programmer and it gives readers the confidence to progress to more advanced skill sets involving C design patterns as applied in finance *Paul Wilmott on Quantitative Finance* Paul Wilmott,2013-10-25 Paul Wilmott on Quantitative Finance Second Edition provides a thoroughly updated look at derivatives and financial engineering published in three volumes with additional CD ROM Volume 1 Mathematical and Financial Foundations Basic Theory of Derivatives Risk and Return The reader is introduced to the fundamental mathematical tools and financial concepts needed to understand quantitative finance

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