



computational finance

numerical methods for pricing financial instruments

George Levy



Computational Finance Numerical Methods For Pricing Financial Instruments Quantitative Finance

Domingo Tavella,Curt Randall



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Numerical Methods in Finance and Economics Paolo Brandimarte, 2013-06-06 A state of the art

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Includes a new chapter on the credit crisis of 2008 Emphasizes mathematical theory *Numerical Methods in Computational Finance* Daniel J. Duffy, 2022-03-21 This book is a detailed and step by step introduction to the mathematical foundations of ordinary and partial differential equations their approximation by the finite difference method and applications to computational finance The book is structured so that it can be read by beginners novices and expert users Part A Mathematical Foundation for One Factor Problems Chapters 1 to 7 introduce the mathematical and numerical analysis concepts that are needed to understand the finite difference method and its application to computational finance Part B Mathematical Foundation for Two Factor Problems Chapters 8 to 13 discuss a number of rigorous mathematical techniques relating to elliptic and parabolic partial differential equations in two space variables In particular we develop strategies to preprocess and modify a PDE before we approximate it by the finite difference method thus avoiding ad hoc and heuristic tricks Part C The Foundations of the Finite Difference Method FDM Chapters 14 to 17 introduce the mathematical background to the finite difference method for initial boundary value problems for parabolic PDEs It encapsulates all the background information to construct stable and accurate finite difference schemes Part D Advanced Finite Difference Schemes for Two Factor Problems Chapters 18 to 22 introduce a number of modern finite difference methods to approximate the solution of two factor partial differential equations This is the only book we know of that discusses these methods in any detail Part E Test Cases in Computational Finance Chapters 23 to 26 are concerned with applications based on previous chapters We discuss finite difference schemes for a wide range of one factor and two factor problems This book is suitable as an entry level introduction as well as a detailed treatment of modern methods as used by industry quants and MSc MFE students in finance The topics have applications to numerical analysis science and engineering More on computational finance and the author's online courses see www.datasim.nl *Tools for Computational Finance* Rüdiger U. Seydel, 2006-08-07 *Tools for Computational Finance* offers a clear explanation of computational issues arising in financial mathematics The new third edition is thoroughly revised and significantly extended including an extensive new section on analytic methods focused mainly on interpolation approach and quadratic approximation Other new material is devoted to risk neutrality early exercise curves multidimensional Black Scholes models the integral representation of options and the derivation of the Black Scholes equation New figures more exercises and expanded background material make this guide a real must to have for everyone working in the world of financial engineering **Numerical Methods in Finance** René Carmona, Pierre Del Moral, Peng Hu, Nadia Oudjane, 2012-03-23 Numerical methods in finance have emerged as a vital field at the crossroads of probability theory finance and numerical analysis Based on presentations given at the workshop Numerical Methods in Finance held at the INRIA Bordeaux France on June 1 2 2010 this book provides an overview of the major new advances in the numerical treatment of instruments with American exercises Naturally it covers the most recent research on the mathematical theory and the practical applications of optimal stopping problems as they relate to financial applications

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Gentle,2011-10-25 Any financial asset that is openly traded has a market price Except for extreme market conditions market price may be more or less than a fair value Fair value is likely to be some complicated function of the current intrinsic value of tangible or intangible assets underlying the claim and our assessment of the characteristics of the underlying assets with respect to the expected rate of growth future dividends volatility and other relevant market factors Some of these factors that affect the price can be measured at the time of a transaction with reasonably high accuracy Most factors however relate to expectations about the future and to subjective issues such as current management corporate policies and market environment that could affect the future financial performance of the underlying assets Models are thus needed to describe the stochastic factors and environment and their implementations inevitably require computational finance tools

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