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# Numerical Methods in Finance

A MATLAB®-Based Introduction

Piero Brandimarte



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COMPUTATIONAL FINANCE

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# Numerical Methods In Finance

**John Miller, David Edelman, John  
Appleby**



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*Quantitative Methods for Finance with Simulations II* Geon Ho Choe, 2026-02-16 This



self contained book is the second of a two volume set providing a thorough introduction to quantitative finance covering both theoretical and computational methods This volume covers numerical methods including numerical solutions of ordinary and partial differential equations such as the Black Scholes Merton equation as well as stochastic differential equations Monte Carlo methods estimation of implied volatility stochastic volatility models and Fourier transform methods for option pricing The numerical methods are implemented in both Matlab and Python Background in mathematics is included in the appendices and the level of familiarity with computer programming is kept to a minimum

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