Computational Methods For Quantitative Finance

Author : Norbert Hilber Oleg Reichmann Christoph Schwab Christoph Winter / **Category :** Mathematics / **Total Pages** : 299 pages

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Summary : Free computational methods for quantitative finance pdf download - many mathematical assumptions on which classical derivative pricing methods are based have come under scrutiny in recent years the present volume offers an introduction to deterministic algorithms for the fast and accurate pricing of derivative contracts in modern finance this unified non-monte-carlo computational pricing methodology is capable of handling rather general classes of stochastic market models with jumps including in particular all currently used l vy and stochastic volatility models it allows us e g to quantify model risk in computed prices on plain vanilla as well as on various types of exotic contracts the algorithms are developed in classical black-scholes markets and then extended to market models based on multiscale stochastic volatility to l vy additive and certain classes of feller processes this book is intended for graduate students and researchers as well as for practitioners in the fields of quantitative finance and applied and computational mathematics with a solid background in mathematics statistics or economics

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