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#37402 in Books 2013-10-28Original language:EnglishPDF # 1 6.88 x .51 x 4.251, #File Name: 0979757649224 pages | File size: 43.Mb

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my time, and all praised 150 Most Frequently Asked Questions on Quant Interviews (Pocket Book Guides for Quant Interviews):

Topics: Mathematics, calculus, differential equations Covariance and correlation matrices. Linear algebra Financial instruments: options, bonds, swaps, forwards, futures C++, algorithms, data structures Monte Carlo simulations. Numerical methods Probability. Stochastic calculus Brainteasers The use of quantitative methods and programming skills in all areas of finance, from trading to risk management, has grown tremendously in recent years, and accelerated through the financial crisis and with the advent of the big data era. A core body of knowledge is required for successfully interviewing for a quant type position. The challenge lies in the fact that this knowledge encompasses finance, programming (in particular C++ programming), and several areas of mathematics (probability and stochastic calculus, numerical methods, linear algebra, and advanced calculus). Moreover, brainteasers are often asked to probe the ingenuity of candidates. This book contains over 150 questions covering this core body of knowledge. These questions are frequently and currently asked on interviews for quantitative positions, and cover a vast spectrum, from C++ and data structures, to finance, brainteasers, and stochastic calculus. The answers to all of these questions are included in the book. These answers are written in the same very practical vein that was used to select the questions: they are complete, but straight to the point, as they would be given in an interview.