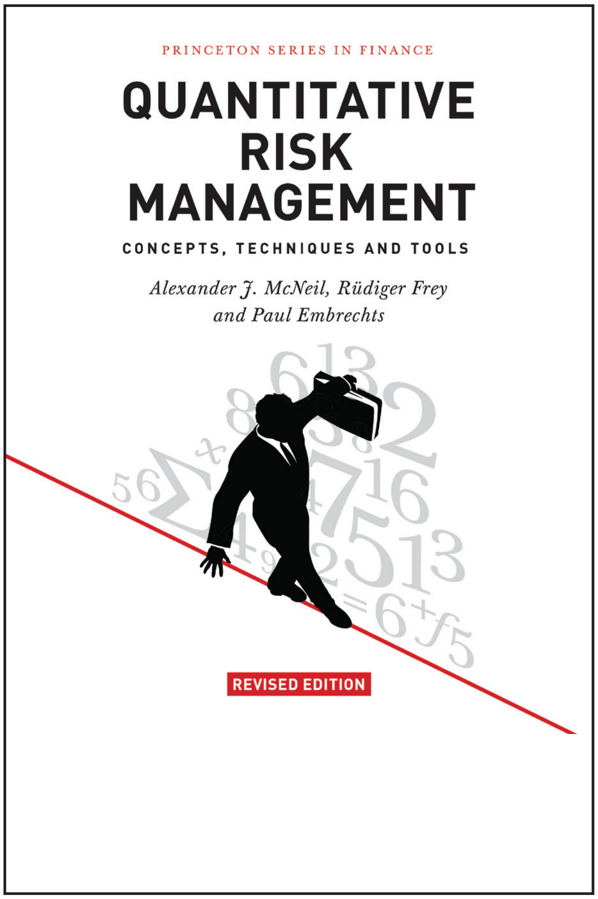
Quantitative Risk Management

Concepts, Techniques and Tools **Revised Edition**

by Alexander J. McNeil, Rüdiger Frey & Paul Embrechts

Praise for the previous edition: "This book provides a state-of-the-art discussion of the three main categories of risk in financial markets, market risk, . . . credit risk . . . and operational risk. . . . This is a high level, but well-written treatment, rigorous (sometimes succinct), complete with theorems and proofs."
—D.L. McLeish, Short Book Reviews of the International Statistical Institute



Praise for the previous edition: "A great summary of the latest techniques available within quantitative risk measurement. . . . [I]t is an excellent text to have on the shelf as a reference when your day job covers the whole spectrum of quantitative techniques in risk management."
—Financial Engineering News

This book provides the most comprehensive treatment of the theoretical concepts and modelling techniques of quantitative risk management. Whether you are a financial risk analyst, actuary, regulator or student of quantitative finance, *Quantitative Risk Management* gives you the practical tools you need to solve real-world problems.

Describing the latest advances in the field, *Quantitative Risk Management* covers the methods for market, credit and operational risk modelling. It places standard industry approaches on a more formal footing and explores key concepts such as loss distributions, risk measures and risk aggregation and allocation principles. The book's methodology draws on diverse quantitative disciplines, from mathematical finance and statistics to econometrics and actuarial mathematics. A primary theme throughout is the need to satisfactorily address extreme outcomes and the dependence of key risk drivers. Proven in the classroom, the book also covers advanced topics like credit derivatives.

- Fully revised and expanded to reflect developments in the field since the financial crisis
- Features shorter chapters to facilitate teaching and learning
- Provides enhanced coverage of Solvency II and insurance risk management and extended treatment of credit risk, including counterparty credit risk and CDO pricing
- Includes a new chapter on market risk and new material on risk measures and risk aggregation

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