Contents

Foreword ix
About the Editor xi
Acknowledgments xiii
About the Contributors xv

PART ONE
Operational Risk Measurement: Qualitative Approaches

CHAPTER 1
Modeling Operational Risk Based on Multiple Experts’ Opinions 3
Jean-Philippe Peters and Georges Hübner

CHAPTER 2
Consistent Quantitative Operational Risk Measurement 23
Andreas A. Jobst

CHAPTER 3
Operational Risk Based on Complementary Loss Evaluations 69
Andrea Giacomelli and Loriana Pelizzon

CHAPTER 4
Can Operational Risk Models Deal with Unprecedented Large Banking Losses? 85
Duc Pham-Hi
CHAPTER 5
Identifying and Mitigating Perceived Risks in the Bank Service Chain: A New Formalization Effort to Address the Intangible and Heterogeneous Natures of Knowledge-Based Services
Magali Dubosson and Emmanuel Fragnière

CHAPTER 6
Operational Risk and Stock Market Returns: Evidence from Turkey
M. Nihat Solakoğlu and K. Ahmet Köse

PART TWO
Operational Risk Measurement: Quantitative Approaches

CHAPTER 7
Integrating Op Risk into Total VaR
Niklas Wagner and Thomas Wenger

CHAPTER 8
Importance Sampling Techniques for Large Quantile Estimation in the Advanced Measurement Approach
Marco Bee and Giuseppe Espa

CHAPTER 9
One-Sided Cross-Validation for Density Estimation with an Application to Operational Risk
María Dolores Martínez Miranda, Jens Perch Nielsen, and Stefan A. Sperlich

CHAPTER 10
Omar Rachedi and Dean Fantazzini

CHAPTER 11
First-Order Approximations to Operational Risk: Dependence and Consequences
Klaus Böcker and Claudia Klüppelberg
Contents

PART THREE
Operational Risk Management and Mitigation

CHAPTER 12
Integrating “Management” into “OpRisk Management” 249
Wilhelm K. Kross

CHAPTER 13
Operational Risk Management: An Emergent Industry 271
Kimberly D. Krawiec

CHAPTER 14
OpRisk Insurance as a Net Value Generator 289
Wilhelm K. Kross and Werner Gleissner

CHAPTER 15
Operational Risk Versus Capital Requirements under New Italian Banking Capital Regulation: Are Small Banks Penalized? 311
Simona Cosma, Giampaolo Gabbi, and Gianfausto Salvadori

CHAPTER 16
Simple Measures for Operational Risk Reduction? An Assessment of Implications and Drawbacks 337
Silke N. Brandts and Nicole Branger

PART FOUR
Issues in Operational Risk Regulation and the Fund Industry

CHAPTER 17
Toward an Economic and Regulatory Benchmarking Indicator for Banking Systems 361
John L. Simpson, John Evans, and Jennifer Westaway

CHAPTER 18
Operational Risk Disclosure in Financial Services Firms 381
Guy Ford, Maike Sundmacher, Nigel Finch, and Tyrone M. Carlin
CONTENTS

CHAPTER 19
Operational Risks in Payment and Securities Settlement Systems: A Challenge for Operators and Regulators 397
Daniela Russo and Pietro Stecconi

CHAPTER 20
Actual and Potential Use of Unregulated Financial Institutions for Transnational Crime 413
Carolyn Vernita Currie

CHAPTER 21
Case Studies in Hedge Fund Operational Risks: From Amaranth to Wood River 435
Keith H. Black

CHAPTER 22
A Risk of Ruin Approach for Evaluating Commodity Trading Advisors 453
Greg N. Gregoriou and Fabrice Douglas Rouah

CHAPTER 23
Identifying and Mitigating Valuation Risk in Hedge Fund Investments 465
Meredith A. Jones

Index 479