

RISK MANAGEMENT: VALUE AT RISK AND BEYOND

edited by •

M.A.H. Dempster •

University of Cambridge

CONTENTS

| | |
|---|-----|
| Contributors | vii |
| Introduction | |
| <i>M.A. H. Dempster</i> | ix |
| 1. Quantifying the Risks of Trading | |
| <i>Evan Picoult</i> | 1 |
| 2. Value at Risk Analysis of a Leveraged Swap | |
| <i>Sam/jay Srvuastava</i> | 60 |
| 3. Stress Testing in a Value at Risk Framework | |
| <i>Paul H. Kupiec</i> | 76 |
| 4. Dynamic Portfolio Replication Using Stochastic Programming | |
| <i>M.A.H. Dempster and G. W.P. Thompson</i> | 100 |
| 5. Credit and Interest Rate Risk | |
| <i>R. Kiesel, W. Perraudin, and A.P. Taylor</i> | 129 |
| X 6. Coherent Measures of Risk | |
| <i>Plulyppe Artzner, Freddy Delbaen, Jean-Marc Eber and David Heath</i> | 145 |
| √ 7. Correlation and Dependence in Risk Management: Properties and Pitfalls | |
| <i>Paul Embrechts, Alexander J. McNeil and Darnel Straumann</i> | 176 |
| 8. Measuring Risk with Extreme Value Theory | |
| <i>Richard L. Smith</i> | 224 |
| 9. Extremes in Operational Risk Management | |
| <i>E.A. Medova and M.N. Kyriacou</i> | 247 |