New Frontiers in Enterprise Risk Management
## Contents

### Part I  Preliminary

1. **Introduction** ..................................................... 3  
   David L. Olson & Desheng Wu

2. **The Human Reaction to Risk and Opportunity** .................. 7  
   David R. Koenig

### Part II  ERM Perspectives

3. **Enterprise Risk Management:**  
   Financial and Accounting Perspectives  .................... 25  
   Desheng Wu & David L. Olson

4. **An Empirical Study on Enterprise Risk Management in Insurance**  .... 39  
   Madhusudan Acharyya

5. **Supply Chain Risk Management** .................................. 57  
   David L. Olson & Desheng Wu

6. **Two Polar Concept of Project Risk Management** .............. 69  
   Seyed Mohammad Seyedhoseini,  
   Siamak Noori & Mohammed AliHatefi

### Part III  ERM Technologies

7. **The Mathematics of Risk Transfer** ................................ 95  
   Marcos Escobar & Luis Seco

8. **Stable Models in Risk Management** ............................. 113  
   Pablo Olivares
9 Hybrid Calibration Procedures for Term Structure Models ........ 125
Thorsten Schmidt

10 The Sarbanes-Oxley Act and the Production Efficiency of Public Accounting Firms ......................... 145
Hsihui Chang, Hiu Lam Choy, William W. Cooper & Mei-Hwa Lin

11 Credit Risk Evaluation Using Neural Networks .................... 163
Zijiang Yang, Desheng Wu, Guangyu Fu & Cuicui Luo

12 Applying the Real Option Approach to Vendor Selection in IT Outsourcing .............................................. 181
Qing Cao & Karyl Leggio

Part IV Applications of ERM in China

13 Assessment of Banking Operational Risk ........................ 195
Chen Zhang, Weidong Zhu, Shanlin Yang & Joseph French

14 Case Study of Risks in Cailing Chemical Corporation ............ 209
Xie Kefan, Cheng Gang, Chen Yun & Wu Gui-xuan

15 Information Technology Outsourcing Risk: Trends in China ...... 223
Desheng Wu, David L. Olson & Dexiang Wu