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Nota di contenuto	<p>Intro -- Preface -- References -- Acknowledgment -- Contents -- 1: Enterprise Risk Management in Supply Chains -- Unexpected Consequences -- Supply Chain Risk Frameworks -- Types of Risk -- A Framework for Risk Management -- Risk Context and Drivers -- Risk Management Influencers -- Decision Makers -- Risk Management Responses -- Performance Outcomes -- Risk Categories within Supply Chains -- Process -- Mitigation Strategies -- Conclusions -- References -- 2: Risk Matrices -- Risk Management Process -- Risk Matrices -- Color Matrices -- Quantitative Risk Assessment -- Strategy/Risk Matrix -- Risk-Adjusted Loss -- Conclusions -- References -- 3: Value-Focused Supply Chain Risk Analysis -- Hierarchy Structuring -- Hierarchy Development Process -- Suggestions for Cases Where Preferential Independence Is Absent -- Multiattribute Analysis -- The SMART Technique -- Plant Siting Decision -- Conclusions -- References -- 4: Examples of Supply Chain Decisions Trading-off Criteria -- Case 1: Lombardi Netto et al. (2021) -- Value Analysis -- Case 2: Liu, Eckert, Yannou-Le Bris, and Petit (2019) -- Value Analysis -- Case 3: Lin et al. (2022) -- Value Analysis -- Case 4: Urbaniec et al. (2021) -- Value Analysis -- Case 5: Akyuz, Karahalios, and Celik (2015) -- Value Analysis -- Conclusions -- References -- 5: Simulation of Supply Chain Risk -- Inventory Systems -- Basic Inventory Simulation Model -- System Dynamics Modeling of Supply Chains -- Pull System -- Push System -- Monte Carlo Simulation for Analysis -- Conclusion -- References -- 6: Value at Risk</p>

Models -- Definition -- The Basel Accords -- Basel I -- Basel II -- Basel III -- The Use of Value at Risk -- Historical Simulation -- Variance-Covariance Approach -- Monte Carlo Simulation of VaR -- The Simulation Process -- Demonstration of VaR Simulation -- Conclusions -- References.

7: Chance-Constrained Models -- Chance-Constrained Applications -- Portfolio Selection -- Demonstration of Chance-Constrained Programming -- Maximize Expected Value of Probabilistic Function -- Minimize Variance -- Solution Procedure -- Maximize Probability of Satisfying Chance Constraint -- Real Stock Data -- Chance-Constrained Model Results -- Conclusions -- References -- 8: Data Envelopment Analysis in Enterprise Risk Management -- Basic Data -- Multiple Criteria Models -- Scales -- Stochastic Mathematical Formulation -- DEA Models -- Conclusion -- References -- 9: Data Mining Models and Enterprise Risk Management -- Bankruptcy Data Demonstration -- Software -- Decision Tree Model -- Logistic Regression Model -- Neural Network Model -- Descriptive Data Mining Studies Involving Climate Change -- Coal Phase-out in Europe -- Association Rule Mining of Adaptation Options -- Cluster Analysis -- Time Series Forecasting -- Summary -- References -- 10: Balanced Scorecards to Measure Enterprise Risk Performance -- ERM and Balanced Scorecards -- Sustainability Performance Measurement -- Da Silva Neiva et al. (2021) Urban Sustainability -- Lu et al. (2022) Sustainability Balanced Scorecard -- Pereira Ribeiro et al. (2021) Balanced Scorecard to Measure Attainment of SDGs -- Conclusions -- References -- 11: Machine Learning and Artificial Intelligence Risk -- Definitions -- Common Machine Learning Algorithms -- Linear Regression -- Logistic Regression -- The K-Nearest Neighbors Algorithm -- Multi-layer Perceptron Artificial Neural Networks (MLP-ANNs) -- Support Vector Machines -- Random Forest -- Principal Component Analysis -- Integrated Z-Score and MLP-ANN Models -- Case Study -- Artificial Intelligence Support to Supply Chains -- Artificial Intelligence Applications -- The Downside of AI -- Challenges and Opportunities -- References.

12: Enterprise Risk Management in Projects -- Project Management Risk -- Risk Management Planning -- Risk Identification -- Qualitative Risk Analysis -- Quantitative Risk Analysis -- Risk Response Planning -- Risk Monitoring and Control -- Project Management Tools -- Simulation Models of Project Management Risk -- Governmental Project -- Conclusions -- References -- 13: Natural Disaster Risk Management -- Emergency Management -- Emergency Management Support Systems -- Example Disaster Management System -- Disaster Management Criteria -- Multiple Criteria Analysis -- Scores -- Weights -- Value Score -- Natural Disaster and Financial Risk Management -- Natural Disaster Risk and Firm Value (Oh et al., 2009) -- Financial Issues -- Systematic and Unsystematic Risk -- Investment Evaluation -- Strategic Investment -- Risk Management and Compliance -- Conclusions -- References -- 14: Sustainability and Enterprise Risk Management -- What We Eat -- The Energy We Use -- The Supply Chains that Link Us to the World -- The Triple Bottom Line -- Sustainability Risks in Supply Chains -- The United Nations View of Sustainability -- Dimensions of Sustainability -- UN Sustainable Development Goals -- Studies of Sustainable Development Goals Applying Data Mining -- Use of SDGs in Carbon Emission Evaluation -- Clustering of Development Trajectories -- Models in Sustainability Risk Management -- Sustainability Selection Model -- Criteria -- Weight Development -- Scores -- Value Analysis -- Conclusions -- References -- 15: Environmental Damage and Risk Assessment -- Specific

