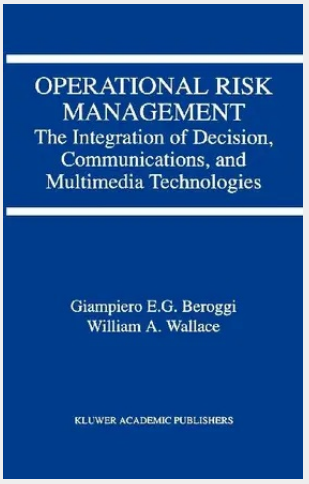
Beroggi / Wallace

Operational Risk Management

The Integration of Decision, Communications, and Multimedia Technologies



Advanced communications and information technologies provide the basis for operational risk management. In order to support managers in real-time risk assessment and decision-making, the advanced technologies must be complemented by an appropriate reasoning logic.
This book presents such a reasoning logic for operational risk management. Chapter 1 discusses the need for operational risk management and the feasibility of its use based upon advances in sensing, mobile communications, and satellite positioning technologies. Chapter II presents a reasoning logic for operational risk management that capitalizes upon these developments. Chapter III illustrates the integration of the reasoning logic in hypermedia, multimedia, and virtual reality systems, coupled with the capabilities provided by the Internet. Chapters IV-VI illustrate the realism of operational risk management for hazardous material transportation, emergency response, air raid command, and emergency response at a nuclear power generation facility. The book closes with an experimental assessment of the logic and associated decision aids in Chapter VII.

- , who will find the most recent advances in operational risk management with experimental assessments.
- , who are provided with a detailed description of operational risk management and the latest advances in information and communications technologies to implement this new approach for managing risks in operational settings, such as transportation of hazardous materials and emergency response.
- , who will learn the basic concepts in theory and practice of building models for decision and risk analysis, and embedding them into commercial software as decision support systems.

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