



Risk Modeling, Assessment, and Management

By Yacov Y. Haimes

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Examines timely multidisciplinary applications, problems, and case histories in risk modeling, assessment, and management

Risk Modeling, Assessment, and Management, Third Edition describes the state of the art of risk analysis, a rapidly growing field with important applications in engineering, science, manufacturing, business, homeland security, management, and public policy. Unlike any other text on the subject, this definitive work applies the art and science of risk analysis to current and emergent engineering and socioeconomic problems. It clearly demonstrates how to quantify risk and construct probabilities for real-world decision-making problems, including a host of institutional, organizational, and political issues.

Avoiding higher mathematics whenever possible, this important new edition presents basic concepts as well as advanced material. It incorporates numerous examples and case studies to illustrate the analytical methods under discussion and features restructured and updated chapters, as well as:

- A new chapter applying systems-driven and risk-based analysis to a variety of Homeland Security issues
- An accompanying FTP site—developed with Professor Joost Santos—that offers 150 example problems with an Instructor's Solution Manual and case studies from a variety of journals
- Case studies on the 9/11 attack and Hurricane Katrina
- An adaptive multiplayer Hierarchical Holographic Modeling (HHM) game added to Chapter Three

This is an indispensable resource for academic, industry, and government professionals in such diverse areas as homeland and cyber security, healthcare, the environment, physical infrastructure systems, engineering, business, and more. It is also a valuable textbook for both undergraduate and graduate students in systems engineering and systems management courses with a focus on our uncertain world.

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Editorial Review

Review

“This is a text for students of risk analysis, covering everything from the art of risk analysis to the statistics of extremes.” (*Natural Hazards Observer*, 1 March 2013)

From the Publisher

Public interest in the field of risk analysis has grown and expanded during the past decade. Risk analysis has emerged as an effective and comprehensive procedure that supplements and complements the overall management of almost all aspects of our lives. It is used in such diverse areas as health care, the environment, physical infrastructure systems, engineering, business and many more.

From the Back Cover

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