



# **Risk Modeling, Assessment, and Management (Wiley Series in Systems Engineering and Management)**

*Yacov Y. Haimes*

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## **Risk Modeling, Assessment, and Management (Wiley Series in Systems Engineering and Management)**

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This is an updated and timely new look at the theory and practice of risk management. Since the first edition of "Risk Modeling, Assessment, and Management" was published, public interest in the field of risk analysis has grown astronomically. Its adaptation across many disciplines and its deployment by industry and government agencies in decision making has led to an unprecedented development of new theory, methodology, and practical tools. The Second Edition of this well-regarded reference describes the state of the art of risk management and its important applications in such areas as engineering, science, manufacturing, business, management, and public policy. The author strikes a balance between the quantitative and the qualitative aspects of risk management, showing clearly how to quantify risk and construct probability in conjunction with real-world decision-making problems. At the same time, he addresses a host of institutional, organizational, political, and cultural considerations. Incorporating real-world examples and case studies to illustrate the analytical methods under discussion, the book presents basic concepts as well as advanced material, avoiding higher mathematics whenever possible. Some key revisions to the Second Edition include: a completely updated format with many new examples and problems; a new chapter on Risks of Terrorism, including case studies in transportation, water supply, infrastructure interdependencies, food safety, and a National Research Council report on terrorism; a new chapter on Risk Filtering, Ranking, and Management (RFRM), a technology co-developed by the author and supported by several case studies and examples; and, a new focus on minimizing the high cost associated with today's more extensive risk management. Examining timely, multidisciplinary practical applications, this new edition offers an important resource for industry professionals as well as advanced graduate students in systems engineering.

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