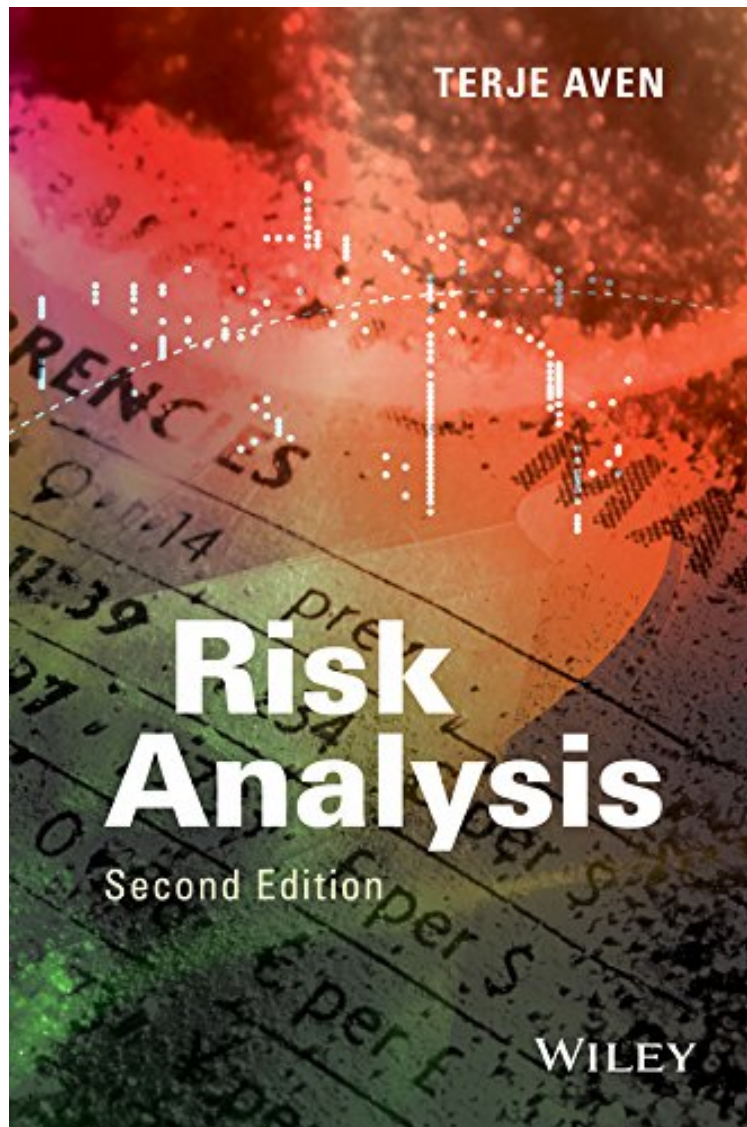


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## Risk Analysis

Terje Aven

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recommendations and guidance in the planning, execution and use of risk analysis. This new edition presents recent developments related to risk conceptualization, focusing on related issues on risk assessment and their application. New examples are also featured to clarify the reader's understanding in the application of risk analysis and the risk analysis process. Key features: Fully updated to include recent developments related to risk conceptualization and related issues on risk assessments and their applications. Emphasizes the decision making context of risk analysis rather than just computing probabilities. Demonstrates how to carry out predictive risk analysis using a variety of case studies and examples. Written by an experienced expert in the field, in a style suitable for both industrial and academic audiences. This book is ideal for advanced undergraduates, graduates, analysts and researchers from statistics, engineering, finance, medicine and physical sciences. Managers facing decision making problems involving risk and uncertainty will also benefit from this book.

"This book provides accessible and concise guidance to the process of planning, execution and use of risk analysis in the context of risk management, with minimal prior knowledge required." (Journal of Applied Statistics, August 2009) "The author has been successful in presenting the subject of risk analysis effectively. The reviewer would like to recommend this book to all those who would like to know about risk analysis and how it can be performed in practical situations." (International Journal of Performability Engineering, January 2009) From the Back Cover Everyday we face decisions that carry an element of risk and uncertainty. The ability to analyze, predict, and prepare for the level of risk entailed by these decisions is, therefore, one of the most constant and vital skills needed for analysts, scientists and managers. Risk analysis can be defined as a systematic use of information to identify hazards, threats and opportunities, as well as their causes and consequences, and then express risk. In order to successfully develop such a systematic use of information, those analyzing the risk need to understand the fundamental concepts of risk analysis and be proficient in a variety of methods and techniques. Risk Analysis adopts a practical, predictive approach and guides the reader through a number of applications. Provides an accessible and concise guide to performing risk analysis in a wide variety of fields, with minimal prior knowledge required. Adopts a broad perspective on risk, with focus on predictions and highlighting uncertainties beyond expected values and probabilities, allowing a more flexible approach than traditional statistical analysis. Acknowledges that expected values and probabilities could produce poor predictions - surprises may occur. Emphasizes the planning and use of risk analyses, rather than just the risk analysis methods and techniques, including the statistical analysis tools. Features many real-life case studies from a variety of applications and practical industry problems, including areas such as security, business and economy, transport, oil gas and ICT (Information and Communication Technology). Forms an ideal companion volume to Aven's previous Wiley text Foundations of Risk Analysis. Professor Aven's previous book Foundations of Risk Analysis presented and discussed several risk analysis approaches and recommended a predictive approach. This new text expands upon this predictive approach, exploring further the risk analysis principles, concepts, methods and models in an applied format. This book provides a useful and practical guide to decision-making, aimed at professionals within the risk analysis and risk management field. About the Author Terje Aven is Professor of risk analysis and risk management at the University of Stavanger, and a Principle Researcher at the International Research Institute of Stavanger (IRIS). Having worked in both industry and academia, he has participated in, and led, many safety and risk related projects, winning several awards for both research and teaching. He has published numerous papers in international journals, and has authored several books.