

Risk Assessment: Theory, Methods, and Applications (Hardback)

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Reviews

An extremely wonderful pdf with lucid and perfect explanations. I could possibly comprehended every little thing out of this created e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding. (Janie Wilkinson)

RISK ASSESSMENT: THEORY, METHODS, AND APPLICATIONS (HARDBACK)



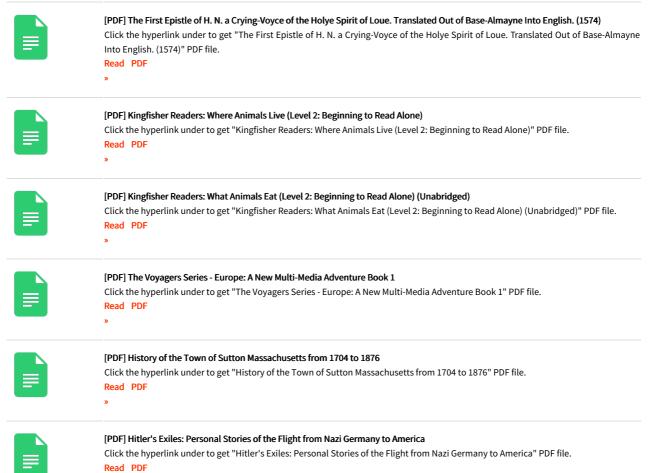
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John Wiley and Sons Ltd, United States, 2011. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. An introduction to risk assessment that utilizes key theory and state-of-the-art applications With its balanced coverage of theory and applications along with standards and regulations, Risk Assessment: Theory, Methods, and Applications serves as a comprehensive introduction to the topic. The book serves as a practical guide to current risk analysis and risk assessment, emphasizing the possibility of sudden, major accidents across various areas of practice from machinery and manufacturing processes to nuclear power plants and transportation systems. The author applies a uniform framework to the discussion of each method, setting forth clear objectives and descriptions, while also shedding light on applications, essential resources, and advantages and disadvantages. Following an introduction to Risk Assessment defines key concepts and details the steps of a thorough risk assessment along with the necessary quantitative risk measures. Chapters outline the overall risk assessment process, and a discussion of fers readers new insights into how and why accidents occur to help them make better assessments. * Risk Assessment Methods and Applications carefully describes the most relevant methods for risk assessment, including preliminary hazard analysis, HAZOP, fault tree analysis, and event tree analysis. Here, each method is accompanied by a self-contained description as well as workflow diagrams and worksheets that illustrate the use of discussed techniques. Important problem areas in risk assessment, such as barriers and barrier analysis, human errors, and human reliability, are discussed along with uncertainty and sensitivity analysis. Each chapter concludes with a listing of resources for further study of the topic, and detailed appendices outline main...

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