



Risk and Reliability Analysis: A Handbook for Civil and Environmental Engineers

Vijay Singh, Sharad Jain, and Aditya Tyagi

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When it comes to the planning, design, construction, and management of engineering systems, risk and uncertainty are unavoidable. The consideration of the risk involved in any situation, project, or plan becomes an integral part of the decision-making process. *Risk and Reliability Analysis: A Handbook for Civil and Environmental Engineers* presents key concepts of risk and reliability that apply to a wide array of problems in civil and environmental engineering. The authors begin with an overview of the art of making decisions in the presence of uncertainty and then explain the fundamentals of probability that will be applied throughout the book. In the second part of the book, the authors discuss various techniques used in probability distributions and parameter estimation. A third section of the book considers different aspects of uncertainty analysis, especially risk analysis and risk management, providing instructive examples. The final group of chapters addresses reliability analysis and design, focusing particularly on the important area of water distribution networks. Ample illustrations and detailed real-life examples make *Risk and Reliability Analysis* essential reading for present and future engineers in the fields of civil, environmental, biological, and agricultural engineering, as well as the watershed sciences.

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