Probabilistic Risk Assessment and Management for Engineers and Scientists.
2nd Edition

Description:

Electrical Engineering Probabilistic Risk Assessment and Management for Engineers and Scientists Second Edition "State of the art in risk analysis...[this book] projects the technology into the next decade. Congratulations to the authors on a virtuoso performance." –Charles Donaghey, University of Houston "A very useful reference to the academic and government communities, and junior engineering staff within nuclear, chemical, transportation, aerospace, and other industries." –Yovan Lukic, Arizona Public Service Company As the demands of government agencies and insurance companies escalate, societal risk assessment and management become increasingly critical to the development and use of engineered systems in the full range of industrial installations. Packed with real-world examples and practical mathematical and statistical methods for large, complex systems, this definitive text and sourcebook gives you the guidance you need for thorough and conclusive study. You'll find new and updated coverage of all the key topics related to risk analysis:

* Probabilistic nature of risk
* Qualitative and quantitative risk assessments
* System decomposition
* Legal and regulatory risks
* And much more!


Contents:

Preface.

Basic Risk Concepts.

Accident Mechanisms and Risk Management.

Probabilistic Risk Assessment.

Fault–Tree Construction.

Qualitative Aspects of System Analysis.

Quantification of Basic Events.

Confidence Intervals.

Quantitative Aspects of System Analysis.

System Quantification for Dependent Events.

Human Reliability.
Uncertainty Quantification.

Legal and Regulatory Risks.

Index.

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