



Quantitative Environmental Risk Analysis for Human Health

Robert A. Fjeld, Norman A. Eisenberg, Keith L. Compton

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A COMPREHENSIVE TEXTBOOK AND REFERENCE FOR QUANTITATIVE ENVIRONMENTAL RISK ANALYSIS FOR BOTH CHEMICAL AND RADIOACTIVE CONTAMINANTS

Environmental risk analysis is complex and interdisciplinary; this book explains the fundamental concepts and analytical methods in each essential discipline. With an emphasis on concepts and applications of quantitative tools plus coverage of analysis of both chemical and radioactive contaminants, this is a comprehensive resource.

After an introduction and an overview of the basics of environmental modeling, the book covers key elements in environmental risk analysis methodology, including:

- Release assessment and source characterization
- Migration of contaminants in various media, including surface water, groundwater, the atmosphere, and the food chain
- Exposure assessment
- Basic human toxicology and dose-response
- Risk characterization, including dose-response modeling and analysis
- Risk management process and methods
- Risk communication and public participation

This reference also relates risk analysis to current environmental laws and regulations. An ideal textbook for graduate students and upper-level undergraduates in various engineering and quantitative science disciplines, especially civil and environmental engineering, it is also a great reference for practitioners in industry, environmental consulting firms, and regulatory agencies.

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