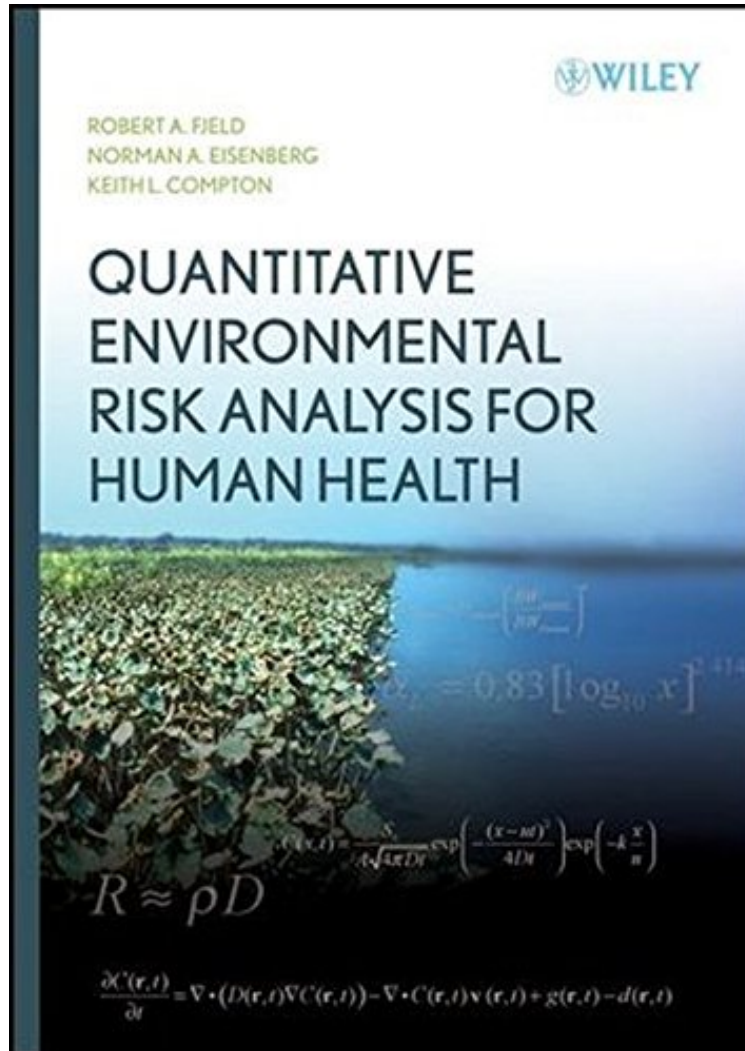


Quantitative Environmental Risk Analysis for Human Health

Robert A. Fjeld, Norman A. Eisenberg, Keith L. Compton
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This is an excellent book for anyone interested in learning or teaching about the field of environmental risk analysis. It covers a broad range of issues in a manner that is approachable for the non-specialist while also including material that engages the interest of the specialist. The book is well-written and the authors are especially adept at explaining complex problems in a way that is easy to understand. I used an early draft of the book in a class on the topic and found it to be an excellent resource that I wholeheartedly recommend.

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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About the Author
ROBERT A. FJELD, PhD, is the Dempsey Professor of Waste Management, Department of Environmental Engineering and Science, at Clemson University. He was among the first to develop curriculum covering quantitative human health risk assessment for both chemical and radiological contaminants. NORMAN A. EISENBERG, PhD, has over thirty years of experience in environmental risk analysis, including work on environmental analysis within the federal government (U.S. Nuclear Regulatory Commission and Department of Energy) and as a consultant, and teaching graduate environmental courses at the University of Maryland. KEITH L. COMPTON, PhD, is a systems performance analyst in the Division of Waste Management at the U.S. Nuclear Regulatory Commission.