



Introduction to Risk Analysis: A Systematic Approach to Science-Based Decision Making

By Daniel M. Byrd III, C. Richard Cothorn

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Written for safety and loss-control, environmental, and quality managers, this is the first comprehensive, integrated guide to developing a complete environmental risk analysis for regulated substances and processes. Unlike other books, *Introduction to Risk Analysis* looks at risk from a regulatory perspective, allowing both professionals in regulatory agencies concerned with risk—including OSHA, EPA, USDA, DOT, FDA, and state environmental agencies—and professionals in any agency-regulated industry to understand and implement the methods required for proper risk assessment.

The authors examine risk and the structure of analysis. Emphasizing the predictive nature of risk, they discuss the quantitative nature of risk and explore quantitative-analysis topics, including data graphing, logarithmic thinking, risk estimating, and curve fitting.

Chapters include discussions on functions, models, and uncertainties; the regulatory process; risk assessment; exposure; dosimetry; epidemiology; toxicology; risk characterization; comparative risk assessment; ecological risk assessment; risk management; and risk communication. Six in-depth case studies, an annotated bibliography, and more than 50 figures are also included.

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