



# Environmental Risk Analysis: Probability Distribution Calculations

*Louis Theodore*

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# Environmental Risk Analysis: Probability Distribution Calculations

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**Environmental Risk Analysis: Probability Distribution Calculations** Louis Theodore

*A Training Tool for the Environmental Risk Professional*

**Environmental Risk Analysis: Probability Distribution Calculations** defines the role that probability distributions play in risk analysis, and gives direction on how to measure and compare the magnitude of risk more efficiently. Designed for the practicing environmental engineer and scientist, this book clearly explains the key fundamentals, principles, and applications of probability distributions in environmental risk analysis.

Based on years of research and the author's own experience, the book provides nearly 200 illustrative examples utilizing probability distributions, as well as numerous solved problems that involve applications in the manufacturing, chemical, refining, power/utilities, travel/aerospace, pharmaceutical, anti-terrorism/military, and nanotechnology industries. It offers an in-depth discussion of the Weibull distribution, which describes failure rate as a function of time. It also details the author's recent efforts to improve on Weibull's work, and covers other continuous probability distributions that can apply to risk assessment/analysis.

The book addresses environmental risk calculations that involve both discrete and continuous probability distributions. It focuses on discrete distributions that include binomial, multinomial, hypergeometric, and Poisson; and continuous distributions that include normal, lognormal, exponential, Weibull, F, and chi-square distribution.

- Includes a complete overview of environmental risk and covers environmental risk-related topics
- Presents a simplified approach to the industrial application of environmental risk analysis and probability distributions
- Offers a practical understanding of environmental risk analysis calculations involving probability distributions

Environmental Risk Analysis: Probability Distribution Calculations provides a working knowledge of the principles and applications needed to solve real-world problems relevant to environmental risk analysis and probability distributions. This book serves as a valuable resource for practicing professionals in environmental science and engineering.

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