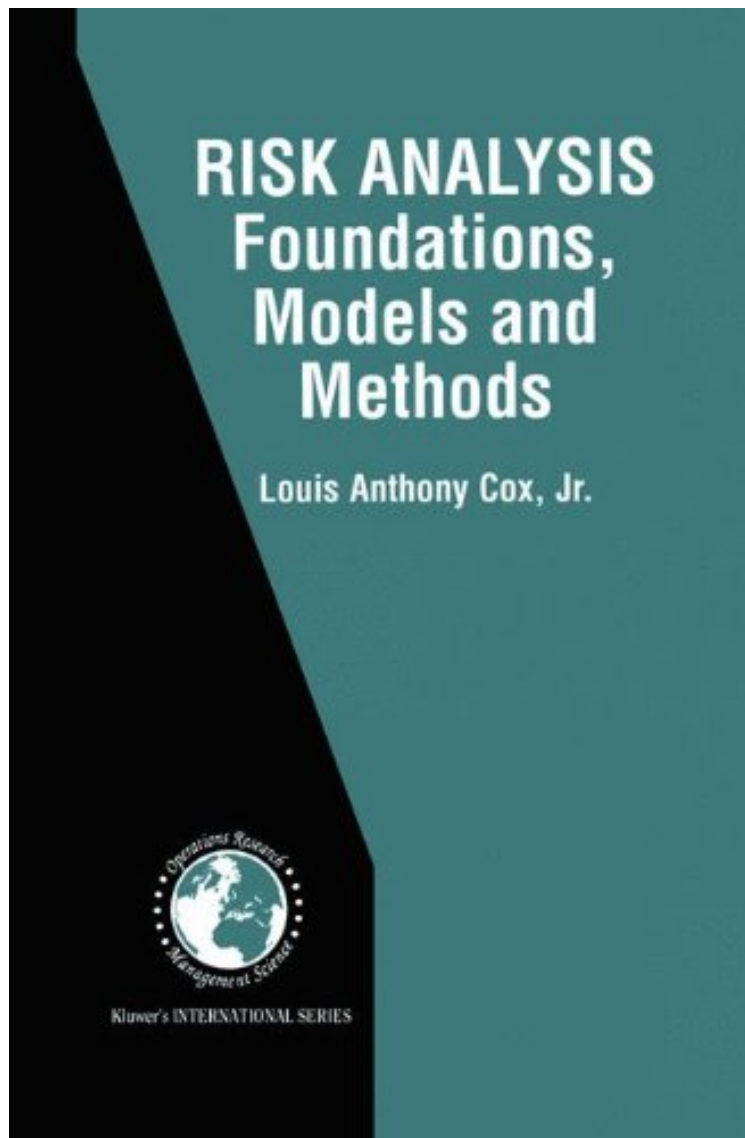


[E-BOOK] Risk Analysis Foundations, Models, and Methods (International Series in Operations Research Management Science)

Risk Analysis Foundations, Models, and Methods (International Series in Operations Research Management Science)

Louis Anthony Cox Jr.

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Louis Anthony Cox Jr. : Risk Analysis Foundations, Models, and Methods (International Series in Operations Research Management Science) before purchasing it in order to gage whether or not it would be worth my time, and all praised Risk Analysis Foundations, Models, and Methods (International Series in Operations Research Management Science):

2 of 2 people found the following review helpful. Excellent reading
By A Customer
The book covers all essential stages of quantitative risk analysis, from identifying risk sources to calculating rational decisions under risk. Though it announces health risks as its main target, the methods and techniques are equally applicable to other areas, e.g. finance and engineering. The book is well written using a clear and rigorous style. However, it is not an easy-reading. A reader is supposed to be closely familiar with basic concepts of calculus, linear algebra, probability and statistics, and differential equations. Reading the book with pen and paper would bring much more than just glancing through. The resulting benefits worth these efforts. The book is best for deep studying of risk analysis, and as a handbook for skilled professionals. I would also recommend it to everyone wishing to gain clear understanding of quantitative decision-making under risk.

2 of 2 people found the following review helpful. Review of Book by Dr. LA Cox, jr.
By Paolo F. Ricci
This book is essential to all serious users of risk assessment and management. It is accessible, well written and has many examples that illustrate the issues discussed. Dr. Cox's book spans from cancer model to decision and game theory. Its broad coverage and depth make the book an essential companion to those who must account for uncertainty and variability when assessing the potential outcomes of alternative choices. Because the book consider the single decision makers, as well as situations characterized by several decisionmakers, it is of much importance to current debates having to do with uncertain causation in health and environmental decisionmaking. I now look forward to a text on ecological risk assessment by this Author because this area of risk assessment requires a unifying framework, much like he has done for human health.

4 of 8 people found the following review helpful. THE DEFINITIVE TEXT IN RISK ANALYSIS
By Daniel M. Byrd
Louis A. Cox, Jr., Ph.D., President of Cox Associates and Professor at the University of Colorado, published Risk Analysis: Foundations, Models, and Methods approximately a year ago. The book is volume 45 of the International Series in Operations Research Management Science. Order this magnificent text here. Armed with the ISBN number, 0792376153, which the book does not display, I could not locate this gem on the Kluwer Academic Publishers net site. The book costs a little too much in the hardbound version for most of us to purchase just for extra informational purposes. Too bad!
Right now, Cox's Risk Analysis is the definitive text in risk analysis. You can purchase it, study it, and with sufficient time, pull together additional source materials to gain a comprehensive understanding of this exciting new discipline. At last the community has an advanced text about the analysis of human health effects risk analysis that covers modeling, causality, and management in a coherent way. Tony Cox's book covers many topics, including ones like multicriteria decision making, so that it has a real world feel and appropriate complexity. Where else can you find a text that moves, in an integrated way, from a detailed treatment of data to estimate human mortality risks to applications of principles of ethics in managing the same risks, such as utilitarianism, game theory, prisoners' dilemma, and moral hazards?

Risk Analysis: Foundations, Models, and Methods fully addresses the questions of "What is health risk analysis?" and "How can its potentialities be developed to be most valuable to public health decision-makers and other health risk managers?" Risk analysis provides methods and principles for answering these questions. It is divided into methods for assessing, communicating, and managing health risks. Risk assessment quantitatively estimates the health risks to individuals and to groups from hazardous exposures and from the decisions or activities that create them. It applies specialized models and methods to quantify likely exposures and their resulting health risks. Its goal is to produce information to improve decisions. It does this by relating alternative decisions to their probable consequences and by identifying those decisions that make preferred outcomes more likely. Health risk assessment draws on explicit engineering, biomathematical, and statistical consequence models to describe or simulate the causal relations between actions and their probable effects on health. Risk communication characterizes and presents information about health risks and uncertainties to decision-makers and stakeholders. Risk management applies principles for choosing among alternative decision alternatives or actions that affect exposure, health risks, or their consequences.

From the reviews: `The book is well structured and based on the latest references to literature and software, including Web-links. [...]distinguishing characteristics of risk analysis and relations to other disciplines as well as relations between different models and approaches are clearly presented, which aids the choice of an appropriate risk analysis model. [...] The presentation of the material is comprehensible, thanks to the numerous didactic examples. [...] In summary, the book can be highly recommended as an overview on latest trends in risk analysis as well as a source of case studies, for teaching health, safety, and environmental risk analysis.' OR News, 19 (2003) "Health risk analysis is considered extensively in this book hellip; many interesting questions (in theory as well as in applications) for operations researchers and management scientists are discussed. hellip; The book contains more than 500 pages and more than 650 references. It is well written and structured, and in particular, the extensive number of examples provided throughout the book give an excellent insight in the topic of health risk analysis." (Stefan Nickel, Zentralblatt MATH, Vol. 1060 (11), 2005)