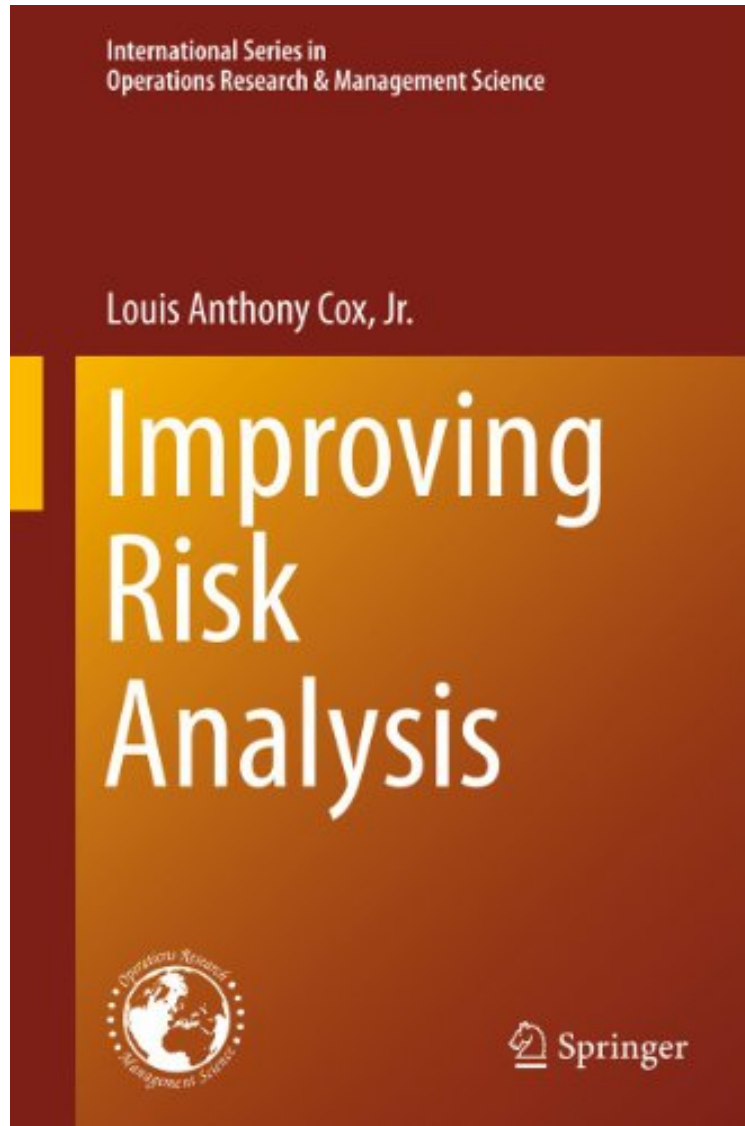


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Improving Risk Analysis: 185 (International Series in Operations Research Management Science)

Louis Anthony Cox Jr.
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Louis Anthony Cox Jr. : Improving Risk Analysis: 185 (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 Improving Risk Analysis: 185 (International Series in Operations Research Management Science):

Improving Risk Analysis shows how to better assess and manage uncertain risks when the consequences of alternative

actions are in doubt. The constructive methods of causal analysis and risk modeling presented in this monograph will enable to better understand uncertain risks and decide how to manage them. The book is divided into three parts. Part 1 shows how high-quality risk analysis can improve the clarity and effectiveness of individual, community, and enterprise decisions when the consequences of different choices are uncertain. Part 2 discusses social decisions. Part 3 illustrates these methods and models, showing how to apply them to health effects of particulate air pollution.

"Tony Cox's new book addresses what risk analysts and policy makers most need to know: How to find out what causes what, and how to quantify the practical differences that changes in risk management practices would make. The constructive methods in *Improving Risk Analysis* will be invaluable in helping practitioners to deliver more useful insights to inform high-stakes decisions and policy, in areas ranging from disaster planning to counter-terrorism investments to enterprise risk management to air pollution abatement policies. Better risk management is possible and practicable; *Improving Risk Analysis* explains how."

Elisabeth Pate-Cornell, Stanford University

"*Improving Risk Analysis* offers crucial advice for moving policy-relevant risk analyses towards more defensible, causally-based methods. Tony Cox draws on his extensive experience to offer sound advice and insights that will be invaluable to both policy makers and analysts in strengthening the foundations for important risk analyses. This much-needed book should be required reading for policy makers and policy analysts confronting uncertain risks and seeking more trustworthy risk analyses."

Seth Guikema, Johns Hopkins University

"Tony Cox has been a trail blazer in quantitative risk analysis, and his new book gives readers the knowledge and tools needed to cut through the complexity and advocacy inherent in risk analysis. Cox's careful exposition is detailed and thorough, yet accessible to non-technical readers interested in understanding uncertain risks and the outcomes associated with different mitigation actions. *Improving Risk Analysis* should be required reading for public officials responsible for making policy decisions about how best to protect public health and safety in an uncertain world."

Susan E. Dudley, George Washington University

From the book reviews: "This book is well written, broad in scope, current in topics, concise, and includes many citations. To aid readers who might have been overwhelmed by the contents in the previous chapters, the conclusions in the last chapter summarize the author's messages. These conclusions and recommendations contrast how risk analysis is often practiced today and how it could be practiced to be more credible and useful. I believe this book will be a good source of insight for practitioners and academia." (Seong Dae Kim, *Interfaces*, Vol. 44 (6), November-December, 2014)

"This excellent book presents up-to-date material, various portions of which are sure to be of great interest to several distinct audiences. The book is full of thorough but accessible examples and case studies with extensive references to the literature. This is an important contribution to the literature in that it bridges the gap from theory to practice, includes many fields of application, and is accessible to a wide audience." (Charles R. Hadlock, *SIAM*, Vol. 55 (4), 2013)

From the Back Cover: *Improving Risk Analysis* discusses and illustrates practical methods for assessing, communicating, and managing uncertain risks when the probabilities of consequences caused by alternative actions cannot be quantified with useful confidence, accuracy, and precision. This monograph demonstrates how to avoid these pitfalls by using improved techniques of risk analysis. Through these improved techniques of risk analysis, readers will better understand uncertain risks and be able to make more effective decisions about how to manage them.

The book is divided into three parts. Parts 1 and 2 explore the key principles on how high-quality risk analysis can greatly improve the clarity and effectiveness of decisions when the consequences of different choices are uncertain. Part 3 shows in greater detail how these introduced methods can be applied to health effects of air pollution, with emphasis on understanding and modeling causal relations between exposures and responses based on realistically limited and imperfect data. Throughout the book, real-world examples and case studies drawn from health, safety, environmental, and terrorism risk analysis are used and illustrate the practical application of techniques for improving risk analysis.