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ABOUT THE BOOK

Risk Analysis – Methods and Applications

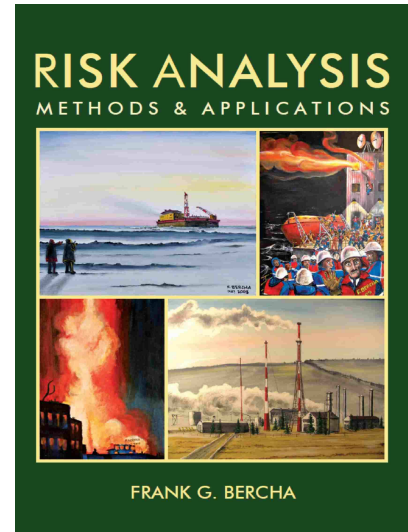
A book by Frank G. Bercha

WHY THIS BOOK?

This book encapsulates Dr. Bercha's unique expertise gained throughout his professional career which spans over 40 years. The book will benefit anyone working in the field of risk analysis, including engineers, architects, lawyers, managers, land use planners, and operators. Part 1 lays out a detailed methodology for solving acute risk analysis problems. Part 2 presents practical applications of this methodology to industrial, transportation, and human performance situations.

THE AUTHOR

Frank G. Bercha obtained his Bachelor's Degree in 1963 and his PhD in Engineering in 1972. His general background includes industrial and frontier regions engineering experience along with project management, design, resident engineering, research, university and industrial course teaching and technology transfer, and provision of expert testimony and attendance at provincial, national, and international tribunals. Over the last 40 years, he has specialized in risk analysis, and directed over 400 such projects for the public and private sectors. He serves on numerous national and international associations and committees, and has authored hundreds of technical reports on risk and reliability analysis and numerous refereed papers on the subjects of risk analysis, industrial and public safety, frontier engineering, and other applications of risk and reliability.



THE BOOK – CONTENTS-(Approximately 600 pages)

Part 1 – Theory

- Introduction
- Fundamentals of risk analysis
- Hazard analysis
- Frequency and probability analysis
- Consequence analysis
- Risk assessment
- Risk acceptability
- Risk mitigation and residual risk
- Summary of point and linear source risk analyses

Part 2 – Applications

- Oil and gas wells
- Natural gas pipelines
- Sour gas pipelines
- Oil pipelines
- Onshore oil and gas facilities
- Offshore oil and gas facilities
- Offshore oil spills
- Power generation facilities
- Road transportation

- Marine transportation
- Air transportation
- Multimodal transportation systems
- Human performance analysis and modeling
- Escape, evacuation, and rescue
- Risk communication