



The book was found

# Choosing Safety: A Guide To Using Probabilistic Risk Assessment And Decision Analysis In Complex, High-Consequence Systems



## Synopsis

The technological age has seen a range of catastrophic and preventable failures, often as a result of decisions that did not appropriately consider safety as a factor in design and engineering.

Through more than a dozen practical examples from the author's experience in nuclear power, aerospace, and other potentially hazardous facilities, *Choosing Safety* is the first book to bring together probabilistic risk assessment and decision analysis using real case studies. For managers, project leaders, engineers, scientists, and interested students, Michael V. Frank focuses on methods for making logical decisions about complex engineered systems and products in which safety is a key factor in design - and where failure can cause great harm, injury, or death.

## Book Information

Paperback: 242 pages

Publisher: Routledge; 1 edition (August 21, 2008)

Language: English

ISBN-10: 1933115548

ISBN-13: 978-1933115542

Product Dimensions: 6.1 x 0.6 x 9.2 inches

Shipping Weight: 14.4 ounces (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars 2 customer reviews

Best Sellers Rank: #2,882,289 in Books (See Top 100 in Books) #13 in Books > Textbooks > Engineering > Nuclear Engineering #448 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #457 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear

## Customer Reviews

'Engaging and fascinating real-world case studies . . . Important material of great interest to many audiences.' Tony Cox, Cox Associates 'The most notable contributions are its practical approach to risk assessment and decisionmaking and the case studies . . . This is a first-rate how-to book. The case studies are particularly valuable for engineering students in aerospace, mechanical, chemical, and nuclear programs.' William E. Kastenberg, University of California, Berkeley

"Engaging and fascinating real-world case studies... Important material of great interest to many audiences." -- Tony Cox, Cox Associates

This book has a wealth of great information but is a bit tough to read. Some of the technical passages could be simplified.

I scientifically evaluate this book with 4.5 Stars in .com evaluation system , BECAUSE It explains with clear scientific precision and with definitions in theoretical & applied science & engineering thinking and also include very important case studies, but only need a small improvement in the language of probability mathematical theory in considering the probability as a norm in a metric space & considering Lebesgue integrals of probability,e.t.c.,...from Joseph-Christos Kondylakis ,  
27-Aug-2014

[Download to continue reading...](#)

Choosing Safety: A Guide to Using Probabilistic Risk Assessment and Decision Analysis in Complex, High-Consequence Systems  
Choosing Safety: A Guide to Using Probabilistic Risk Assessment and Decision Analysis in Complex, High-Consequence Systems (Rff Press)  
LNG Risk Based Safety: Modeling and Consequence Analysis  
Forensic Assessment of Violence Risk: A Guide for Risk Assessment and Risk Management  
Probabilistic Risk Assessment in the Nuclear Power Industry: Fundamentals and Applications  
Project Economics and Decision Analysis: Probabilistic Models  
ISO 12100:2010, Safety of machinery - General principles for design - Risk assessment and risk reduction  
High Fiber Recipes: 101 Quick and Easy High Fiber Recipes for Breakfast, Snacks, Side Dishes, Dinner and Dessert (high fiber cookbook, high fiber diet, high fiber recipes, high fiber cooking)  
Data Analysis and Graphics Using R: An Example-Based Approach (Cambridge Series in Statistical and Probabilistic Mathematics)  
Random Graphs and Complex Networks: Volume 1 (Cambridge Series in Statistical and Probabilistic Mathematics)  
AWHONN High-Risk & Critical Care Obstetrics (Mandeville, AWHONN's High Risk and Critical Care Intrapartum Nursing)  
Strategic Security Management: A Risk Assessment Guide for Decision Makers  
Global Risk Agility and Decision Making: Organizational Resilience in the Era of Man-Made Risk  
Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis)  
Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data)  
Kidpower Safety Comics: People Safety Skills for Teens and Adults (Kidpower Safety Comics)  
Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety Comics)  
Strategic Decision Making: Multiobjective Decision Analysis with Spreadsheets  
Probability and Computing: Randomization and Probabilistic Techniques in Algorithms and Data Analysis

# Probabilistic Reasoning in Intelligent Systems: Networks of Plausible Inference (Representation and Reasoning)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)