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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.

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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

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