

Chapter 4

Probabilistic Risk Assessment

Martin E. Hellman

Probabilistic risk assessment (PRA) can provide a quantitative estimate of risk for catastrophes that have not yet occurred by analyzing sequences of events that can lead to that event—in our case a major nuclear war. PRA is also useful for reducing that risk by identifying potential paths to nuclear weapons use that otherwise might escape attention. While PRA has been embraced in nuclear power, spaceflight, and other engineering fields, there are significant challenges to transferring that experience to the risk of nuclear deterrence failing. In-depth PRA of nuclear deterrence holds promise but requires significant further research. Fortunately, a simple approach can be used to show that the risk of nuclear deterrence failing currently appears to be on the order of 1 percent per year. It is hoped that this surprising result will cause society to invest in the larger efforts required for in-depth analysis, both to estimate and to reduce the risk of a major nuclear war.

The debate over our nation's nuclear posture has been carried out largely in a fashion inconsistent with the issue's importance. On the one hand, former secretary of defense James Schlesinger stated that we will need to depend on nuclear deterrence "more or less in perpetuity," while former secretary of defense Robert McNamara claimed that doing so "will destroy nations."

This chapter addresses the role that probabilistic risk analysis, or PRA, can play in the nuclear posture debate.

Can Probabilistic Risk Analysis Be Applied to Nuclear Deterrence?

By fostering a culture of risk awareness, PRA (also known as quantitative risk analysis, or QRA) has improved safety and illuminated previously unforeseen failure mechanisms in areas as diverse as nuclear power

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Charles Yoe



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Probabilistic Risk Analysis Tim Bedford, Roger Cooke, 2001-04-30 Probabilistic risk analysis aims to quantify the risk caused by high technology installations Increasingly such analyses are being applied to a wider class of systems in which problems such as lack of data complexity of the systems uncertainty about consequences make a classical statistical analysis difficult or impossible The authors discuss the fundamental notion of uncertainty its relationship with probability and the limits to the quantification of uncertainty Drawing on extensive experience in the theory and applications of risk analysis the authors focus on the conceptual and mathematical foundations underlying the quantification interpretation and management of risk They cover standard topics as well as important new subjects such as the use of expert judgement and uncertainty propagation The relationship of risk analysis with decision making is highlighted in chapters on influence diagrams and decision theory Finally the difficulties of choosing metrics to quantify risk and current regulatory frameworks are discussed

Uncertainty in Risk Assessment Terje Aven, Piero Baraldi, Roger Flage, Enrico Zio, 2014-02-03 Explores methods for the representation and treatment of uncertainty in risk assessment In providing guidance for practical decision making situations concerning high consequence technologies e g nuclear oil and gas transport etc the theories and methods studied in *Uncertainty in Risk Assessment* have wide ranging applications from engineering and medicine to environmental impacts and natural disasters security and financial risk management The main focus however is on engineering applications While requiring some fundamental background in risk assessment as well as a basic knowledge of probability theory and statistics *Uncertainty in Risk Assessment* can be read profitably by a broad audience of professionals in the field including researchers and graduate students on courses within risk analysis statistics engineering and the physical sciences *Uncertainty in Risk Assessment* Illustrates the need for seeing beyond probability to represent uncertainties in risk assessment contexts Provides simple explanations supported by straightforward numerical examples of the meaning of different types of probabilities including interval probabilities and the fundamentals of possibility theory and evidence theory Offers guidance on when to use probability and when to use an alternative representation of uncertainty Presents and discusses methods for the representation and characterization of uncertainty in risk assessment Uses examples to clearly illustrate ideas and concepts

Risk Analysis in Engineering Mohammad Modarres, 2006-01-13 Based on the author s 20 years of teaching *Risk Analysis in Engineering Techniques Tools and Trends* presents an engineering approach to probabilistic risk analysis PRA It emphasizes methods for comprehensive PRA studies including techniques for risk management The author assumes little or no prior knowledge of risk analysis on the part of the student and provides the necessary mathematical and engineering foundations The text relies heavily on but is not limited to examples from the nuclear industry because that is where PRA techniques were first developed Since PRA provides a best estimate approach the author pays special attention to explaining uncertainty characterization The book begins with a description of the basic definitions and principles of risk safety and

performance and presents the elements of risk analysis and their applications in engineering After highlighting the methods for performing PRAs the author describes how to assess and measure performance of the building blocks of PRAs such as reliability of hardware subsystems structures components human actions and software He covers methods of characterizing uncertainties and methods for propagating them through the PRA model to estimate uncertainties of the results The book explores how to identify and rank important and sensitive contributors to the estimated risk using the PRA and performance assessment models It also includes a description of risk acceptance criteria and the formal methods for making decisions related to risk management options and strategies The book concludes with a brief review of the main aspects issues and methods of risk communication Drawing on notes homework problems and exams from courses he has taught as well as feedback from his students Professor Modarres provides a from the trenches method for teaching risk assessment for engineers This is a textbook that is easy to use for students and professors alike Dynamic Probabilistic Risk Assessment

Using Event Sequence Diagrams S. Swaminathan,1999 **Probabilistic Risk Assessment** American Nuclear Society,1982

Use of probabilistic risk assessment in safety analysis Milorad Dušič,Andrej Jerele,Dame Stojanovski,Petar Brajak,1985 **Risk Analysis** Terje Aven,2008-04-30 Everyday we face decisions that carry an element of risk and uncertainty The ability to analyze predict and prepare for the level of risk entailed by these decisions is therefore one of the most constant and vital skills needed for analysts scientists and managers Risk analysis can be defined as a systematic use of information to identify hazards threats and opportunities as well as their causes and consequences and then express risk In order to successfully develop such a systematic use of information those analyzing the risk need to understand the fundamental concepts of risk analysis and be proficient in a variety of methods and techniques Risk Analysis adopts a practical predictive approach and guides the reader through a number of applications Risk Analysis Provides an accessible and concise guide to performing risk analysis in a wide variety of fields with minimal prior knowledge required Adopts a broad perspective on risk with focus on predictions and highlighting uncertainties beyond expected values and probabilities allowing a more flexible approach than traditional statistical analysis Acknowledges that expected values and probabilities could produce poor predictions surprises may occur Emphasizes the planning and use of risk analyses rather than just the risk analysis methods and techniques including the statistical analysis tools Features many real life case studies from a variety of applications and practical industry problems including areas such as security business and economy transport oil gas and ICT Information and Communication Technology Forms an ideal companion volume to Aven's previous Wiley text Foundations of Risk Analysis Professor Aven's previous book Foundations of Risk Analysis presented and discussed several risk analysis approaches and recommended a predictive approach This new text expands upon this predictive approach exploring further the risk analysis principles concepts methods and models in an applied format This book provides a useful and practical guide to decision making aimed at professionals within the risk analysis and risk management field **Probabilistic Risk Analysis and**

Bayesian Decision Theory Marcel van Oijen, Mark Brewer, 2022-11-23 The book shows how risk defined as the statistical expectation of loss can be formally decomposed as the product of two terms hazard probability and system vulnerability This requires a specific definition of vulnerability that replaces the many fuzzy definitions abounding in the literature The approach is expanded to more complex risk analysis with three components rather than two and with various definitions of hazard Equations are derived to quantify the uncertainty of each risk component and show how the approach relates to Bayesian decision theory Intended for statisticians environmental scientists and risk analysts interested in the theory and application of risk analysis this book provides precise definitions new theory and many examples with full computer code The approach is based on straightforward use of probability theory which brings rigour and clarity Only a moderate knowledge and understanding of probability theory is expected from the reader

Scenario Logic and Probabilistic Management of Risk in Business and Engineering Evgueni D. Solojntsev, 2008-12-10 This book proposes a uniform logic and probabilistic LP approach to risk estimation and analysis in engineering and economics It covers the methodological and theoretical basis of risk management at the design test and operation stages of economic banking and engineering systems with groups of incompatible events GIE This edition includes new chapters providing a detailed treatment of scenario logic and probabilistic models for revealing bribes It also contains clear definitions and notations revised sections and chapters an extended list of references and a new subject index as well as more than a hundred illustrations and tables which motivate the presentation

Probabilistic Risk Assessment American Nuclear Society. Long Island Section. Nuclear Reactor Safety Division, European Nuclear Society, [Probabilistic Risk Assessment A Complete Guide - 2020 Edition](#) Gerardus Blokdyk, 2020-02-07 Have design to cost goals been established How is the way you as the leader think and process information affecting your organizational culture Do you think you know or do you know you know What are the costs What activities does the governance board need to consider This powerful Probabilistic Risk Assessment self assessment will make you the reliable Probabilistic Risk Assessment domain authority by revealing just what you need to know to be fluent and ready for any Probabilistic Risk Assessment challenge How do I reduce the effort in the Probabilistic Risk Assessment work to be done to get problems solved How can I ensure that plans of action include every Probabilistic Risk Assessment task and that every Probabilistic Risk Assessment outcome is in place How will I save time investigating strategic and tactical options and ensuring Probabilistic Risk Assessment costs are low How can I deliver tailored Probabilistic Risk Assessment advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Probabilistic Risk Assessment essentials are covered from every angle the Probabilistic Risk Assessment self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Probabilistic Risk Assessment outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Probabilistic Risk

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Principles of Risk Analysis Charles Yoe, 2011-09-15 In every decision context there are things we know and things we do not know Risk analysis uses science and the best available evidence to assess what we know and it is intentional in the way it addresses the importance of the things we don't know Principles of Risk Analysis Decision Making Under Uncertainty lays out the tasks of risk analysis in a straightforward conceptual manner that is consistent with the risk models of all communities of practice It answers the questions what is risk analysis and how do I do this Distilling the common principles of the many risk tribes and dialects into serviceable definitions and narratives the book provides a foundation for the practice of risk analysis and decision making under uncertainty for professionals from all walks of life In the first part of the book readers learn the language models and concepts of risk analysis and its three component tasks risk management assessment and communication The second part of the book supplies the tools techniques and methodologies to help readers apply the principles From problem identification and brainstorming to model building and choosing a probability distribution the author walks readers through the how to of risk assessment Addressing the critical task of risk communication he explains how to present the results of assessments and how to develop effective messages The book's simple and straightforward style based on the author's decades of experience as a risk analyst trainer and educator strips away the mysterious aura that often accompanies risk analysis It describes the principles in a manner that empowers readers to begin the practice of risk analysis to better understand and use the models and practice of their individual fields and to gain access to the rich and sophisticated professional literature on risk analysis Additional exercises as well as a free student version of the Palisade Corporation DecisionTools Suite software and files used in the preparation of this book are available for download

Fundamentals of Probabilistic Risk Assessment Haresh C. Shah, Stanford University, 1984 *Probabilistic Risk Assessment (PRA) Insights* R. Fitzpatrick, L. Arrieta, T. Teichmann, P. Davis, Brookhaven National Laboratory, Intermountain

Technologies, Inc., Nuclear Regulatory Commission, 1987

Probabilistic Risk Analysis A Complete Guide - 2020

Edition Gerardus Blokdyk, 2020-02-07 Why not do Probabilistic risk analysis How have you defined all Probabilistic risk analysis requirements first Is a follow up focused external Probabilistic risk analysis review required What is your Probabilistic risk analysis strategy How do the Probabilistic risk analysis results compare with the performance of your competitors and other organizations with similar offerings This instant Probabilistic Risk Analysis self assessment will make you the principal Probabilistic Risk Analysis domain specialist by revealing just what you need to know to be fluent and ready for any Probabilistic Risk Analysis challenge How do I reduce the effort in the Probabilistic Risk Analysis work to be done to get problems solved How can I ensure that plans of action include every Probabilistic Risk Analysis task and that every Probabilistic Risk Analysis outcome is in place How will I save time investigating strategic and tactical options and ensuring Probabilistic Risk Analysis costs are low How can I deliver tailored Probabilistic Risk Analysis advice instantly with structured going forward plans There s no better guide through these mind expanding questions than acclaimed best selling author Gerard Blokdyk Blokdyk ensures all Probabilistic Risk Analysis essentials are covered from every angle the Probabilistic Risk Analysis self assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Probabilistic Risk Analysis outcomes are achieved Contains extensive criteria grounded in past and current successful projects and activities by experienced Probabilistic Risk Analysis practitioners Their mastery combined with the easy elegance of the self assessment provides its superior value to you in knowing how to ensure the outcome of any efforts in Probabilistic Risk Analysis are maximized with professional results Your purchase includes access details to the Probabilistic Risk Analysis self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows you exactly what to do next Your exclusive instant access details can be found in your book You will receive the following contents with New and Updated specific criteria The latest quick edition of the book in PDF The latest complete edition of the book in PDF which criteria correspond to the criteria in The Self Assessment Excel Dashboard Example pre filled Self Assessment Excel Dashboard to get familiar with results generation In depth and specific Probabilistic Risk Analysis Checklists Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books Lifetime Updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

Probabilistic Risk Assessment Alexandra Maertens, Emily Golden, Thomas H. Luechtefeld, Sebastian Hoffmann, Katya Tsaoun, Thomas Hartung, 2022

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ASSESSMENT (PRA): STATUS REPORT AND GUIDANCE FOR REGULATORY APPLICATION. , 1984 Probabilistic

Risk Assessment Method for Prioritization of Risk Factors Jay Tarakkumar Shah, 2004

Probability and Risk Analysis

Igor Rychlik, Jesper Rydén, 2006-08-02 From the reviews This is a textbook for students with basic undergraduate courses

mathematical knowledge In the first part elementary statistical methods are explained including basic ideas of Bayesian inference and point processes The second part is devoted to probabilistic assessment of risk in engineering problems Each chapter ends with a section on exercises short solutions are given in appendix **Procedures Guide for Extracting & Loading Probabilistic Risk Assessment Data ... Etc** ,1991

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