

**RELIABLE METHODS FOR
COMPUTER SIMULATION
Error Control and A
Posteriori Estimates**

Rakka Neittaanmäki
Sergey Repin

Reliable Methods For Computer Simulation

James L. Martin



Reliable Methods For Computer Simulation:

Reliable Methods for Computer Simulation Pekka Neittaanmäki, Sergey R. Repin, 2004-09-04 Recent decades have seen a very rapid success in developing numerical methods based on explicit control over approximation errors It may be said that nowadays a new direction is forming in numerical analysis the main goal of which is to develop methods of reliable computations In general a reliable numerical method must solve two basic problems a generate a sequence of approximations that converges to a solution and b verify the accuracy of these approximations A computer code for such a method must consist of two respective blocks solver and checker In this book we are chiefly concerned with the problem b and try to present the main approaches developed for a posteriori error estimation in various problems The authors try to retain a rigorous mathematical style however proofs are constructive whenever possible and additional mathematical knowledge is presented when necessary The book contains a number of new mathematical results and lists a posteriori error estimation methods that have been developed in the very recent time computable bounds of approximation errors checking algorithms iteration processes finite element methods elliptic type problems nonlinear variational problems variational inequalities

Reliable Methods for Computer Simulation Pekka Neittaanmäki, Sergey R. Repin, 2004-08-30 Recent decades have seen a very rapid success in developing numerical methods based on explicit control over approximation errors It may be said that nowadays a new direction is forming in numerical analysis the main goal of which is to develop methods of reliable computations In general a reliable numerical method must solve two basic problems a generate a sequence of approximations that converges to a solution and b verify the accuracy of these approximations A computer code for such a method must consist of two respective blocks solver and checker In this book we are chiefly concerned with the problem b and try to present the main approaches developed for a posteriori error estimation in various problems The authors try to retain a rigorous mathematical style however proofs are constructive whenever possible and additional mathematical knowledge is presented when necessary The book contains a number of new mathematical results and lists a posteriori error estimation methods that have been developed in the very recent time

Simulation Methods for Reliability and Availability of Complex Systems Javier Faulin, Angel A. Juan, Sebastián Salvador Martorell Alsina, Jose Emmanuel Ramirez-Marquez, 2010-04-22 Simulation Methods for Reliability and Availability of Complex Systems discusses the use of computer simulation based techniques and algorithms to determine reliability and availability R and A levels in complex systems The book shares theoretical or applied models and decision support systems that make use of simulation to estimate and to improve system R and A levels forecasts emerging technologies and trends in the use of computer simulation for R and A and proposes hybrid approaches to the development of efficient methodologies designed to solve R and A related problems in real life systems Dealing with practical issues Simulation Methods for Reliability and Availability of Complex Systems is designed to support managers and system engineers in the improvement of R and A as well as providing a thorough

exploration of the techniques and algorithms available for researchers and for advanced undergraduate and postgraduate students

Network Reliability with Computer Aided Design Pasquale De Marco, 2025-08-15 Network reliability is a critical aspect of network design and operation. It ensures that networks can provide the required level of service to their users even in the presence of failures. Network reliability is a complex topic that encompasses a wide range of topics from graph theory to probability theory to network optimization. This book provides a comprehensive introduction to network reliability. It covers the basic concepts of network reliability as well as more advanced topics such as probabilistic models for network reliability, network reliability analysis tools, and network design for reliability. The book also includes a number of case studies that illustrate how network reliability is applied in practice. Network reliability is a rapidly growing field, and this book provides a timely and up-to-date overview of the state of the art. The book is written by a team of leading experts in the field, and it is sure to become a valuable resource for anyone interested in network reliability. This book is intended for a broad audience, including network engineers, network designers, and researchers in the field of network reliability. The book is also suitable for use as a textbook in a graduate course on network reliability. The book is organized into ten chapters. The first chapter provides an overview of network reliability, and the second chapter covers the basic concepts of graph theory. The third chapter introduces probability theory and its application to network reliability, and the fourth chapter discusses network reliability analysis tools. The fifth chapter covers network design for reliability, and the sixth chapter provides a number of case studies that illustrate how network reliability is applied in practice. The remaining chapters of the book cover more advanced topics in network reliability. The seventh chapter discusses network reliability in telecommunications networks, the eighth chapter discusses network reliability in transportation networks, and the ninth chapter discusses network reliability in energy networks. The tenth chapter concludes the book with a discussion of future trends in network reliability. This book is essential reading for anyone interested in network reliability. It provides a comprehensive overview of the field, and it is written by a team of leading experts. The book is also well organized and easy to read, making it a valuable resource for both practitioners and researchers. If you like this book, write a review.

Computer Simulations in Science and Engineering Juan Manuel Durán, 2018-09-20 This book addresses key conceptual issues relating to the modern scientific and engineering use of computer simulations. It analyses a broad set of questions from the nature of computer simulations to their epistemological power, including the many scientific, social, and ethics implications of using computer simulations. The book is written in an easily accessible narrative style that weaves together philosophical questions and scientific technicalities. It will thus appeal equally to all academic scientists, engineers, and researchers in industry interested in questions and conceivable answers related to the general practice of computer simulations.

Methods for Reliability Improvement and Risk Reduction Michael Todinov, 2018-12-10 Reliability is one of the most important attributes for the products and processes of any company or organization. This important work provides a powerful framework of domain-independent reliability

improvement and risk reducing methods which can greatly lower risk in any area of human activity It reviews existing methods for risk reduction that can be classified as domain independent and introduces the following new domain independent reliability improvement and risk reduction methods Separation Stochastic separation Introducing deliberate weaknesses Segmentation Self reinforcement Inversion Reducing the rate of accumulation of damage Permutation Substitution Limiting the space and time exposure Comparative reliability models The domain independent methods for reliability improvement and risk reduction do not depend on the availability of past failure data domain specific expertise or knowledge of the failure mechanisms underlying the failure modes Through numerous examples and case studies this invaluable guide shows that many of the new domain independent methods improve reliability at no extra cost or at a low cost Using the proven methods in this book any company and organisation can greatly enhance the reliability of its products and operations

Numerical Methods for Differential Equations, Optimization, and Technological Problems Sergey Repin, Timo Tiihonen, Tero Tuovinen, 2012-10-13 This book contains the results in numerical analysis and optimization presented at the ECCOMAS thematic conference Computational Analysis and Optimization CAO 2011 held in Jyväskylä Finland June 9-11 2011 Both the conference and this volume are dedicated to Professor Pekka Neittaanmäki on the occasion of his sixtieth birthday It consists of five parts that are closely related to his scientific activities and interests Numerical Methods for Nonlinear Problems Reliable Methods for Computer Simulation Analysis of Noised and Uncertain Data Optimization Methods Mathematical Models Generated by Modern Technological Problems The book also includes a short biography of Professor Neittaanmäki

Reliability Assessment of Electric Power Systems Using Monte Carlo Methods Billinton, W. Li, 2013-06-29 The application of quantitative reliability evaluation in electric power systems has now evolved to the point at which most utilities use these techniques in one or more areas of their planning design and operation Most of the techniques in use are based on analytical models and resulting analytical evaluation procedures Improvements in and availability of high speed digital computers have created the opportunity to analyze many of these problems using stochastic simulation methods and over the last decade there has been increased interest in and use made of Monte Carlo simulation in quantitative power system reliability assessment Monte Carlo simulation is not a new concept and recorded applications have existed for at least 50 yr However localized high speed computers with large capacity storage have made Monte Carlo simulation an available and sometimes preferable option for many power system reliability applications Monte Carlo simulation is also an integral part of a modern undergraduate or graduate course on reliability evaluation of general engineering systems or specialized areas such as electric power systems It is hoped that this textbook will help formalize the many existing applications of Monte Carlo simulation and assist in their integration in teaching programs This book presents the basic concepts associated with Monte Carlo simulation

Computational Sciences and Artificial Intelligence in Industry Tero Tuovinen, Jacques Periaux, Pekka Neittaanmäki, 2021-08-19 This book is addressed to young researchers and engineers

in the fields of Computational Science and Artificial Intelligence ranging from innovative computational methods to digital machine learning tools and their coupling used for solving challenging industrial and societal problems This book provides the latest knowledge from jointly academic and industries experts in Computational Science and Artificial Intelligence fields for exploring possibilities and identifying challenges of applying Computational Sciences and AI methods and tools in industrial and societal sectors **Energy Research Abstracts** ,1984 **NBS Special Publication** ,1968 **Computer**

Simulation of Porous Materials Kim E. Jelfs,2021-09-08 This book covers key approaches in the modelling of porous materials with a focus on how these can be used for structure prediction and to rationalise or predict a range of properties

Reliability Abstracts and Technical Reviews ,1970 Probabilistic Structural Mechanics Handbook C.R.

Sundararajan,2012-12-06 The need for a comprehensive book on probabilistic structural mechanics that brings together the many analytical and computational methods developed over the years and their applications in a wide spectrum of industries from residential buildings to nuclear power plants from bridges to pressure vessels from steel structures to ceramic structures became evident from the many discussions the editor had with practising engineers researchers and professors Because no single individual has the expertise to write a book with such a diverse scope a group of 39 authors from universities research laboratories and industries from six countries in three continents was invited to write 30 chapters covering the various aspects of probabilistic structural mechanics The editor and the authors believe that this handbook will serve as a reference text to practicing engineers teachers students and researchers It may also be used as a textbook for graduate level courses in probabilistic structural mechanics The editor wishes to thank the chapter authors for their contributions This handbook would not have been a reality without their collaboration *Hydro-Environmental Analysis*

James L. Martin,2013-12-04 Focusing on fundamental principles Hydro Environmental Analysis Freshwater Environments presents in depth information about freshwater environments and how they are influenced by regulation It provides a holistic approach exploring the factors that impact water quality and quantity and the regulations policy and management methods that are necessary to maintain this vital resource It offers a historical viewpoint as well as an overview and foundation of the physical chemical and biological characteristics affecting the management of freshwater environments The book concentrates on broad and general concepts providing an interdisciplinary foundation The author covers the methods of measurement and classification chemical physical and biological characteristics indicators of ecological health and management and restoration He also considers common indicators of environmental health characteristics and operations of regulatory control structures applicable laws and regulations and restoration methods The text delves into rivers and streams in the first half and lakes and reservoirs in the second half Each section centers on the characteristics of those systems and methods of classification and then moves on to discuss the physical chemical and biological characteristics of each In the section on lakes and reservoirs it examines the characteristics and operations of regulatory structures and presents the

methods commonly used to assess the environmental health or integrity of these water bodies It also introduces considerations for restoration and presents two unique aquatic environments wetlands and reservoir tailwaters Written from an engineering perspective the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science as well as students of environmental engineering It also serves as a reference for engineers and scientists involved in the management regulation or restoration of freshwater environments

Safety and Reliability of Complex Engineered Systems Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03

Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas

Scientific and Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Reliability Problems: General Principles and Applications in Mechanics of Solids and Structures F. Casciati, J.B. Roberts, 2014-05-04 The aim of this volume is to present to researchers and engineers working on problems concerned with the mechanics of solids and structures the current state of the development and application to procedures for assessing the reliability of a system Particular attention is paid to their use in the analysis of complex engineering systems The topics covered reflect the need to integrate within the overall methodology statistical methods for dealing with uncertain parameters and random excitation with the development of a suitable safety indexes and design codes The basic principles of reliability theory together with current standard methodology including a consideration of the operational economic and legal aspects of reliability assurance is reviewed together with an introduction to new developments such as the application of expert systems technology Damage accumulation predictions with applications in seismic engineering are also covered

Rare Event Simulation using Monte Carlo Methods Gerardo Rubino, Bruno Tuffin, 2009-03-18 In a probabilistic model a rare event is an event with a very small probability of occurrence The forecasting of rare events is a formidable task but is important in many areas For instance a catastrophic failure in a transport system or in a nuclear power plant the failure of an information processing system in a bank or in the communication network of a group of banks leading to financial losses Being able to evaluate the probability of rare events is therefore a critical issue Monte Carlo Methods the simulation of corresponding models are used to analyze rare events This book sets out to present the mathematical tools available for the efficient simulation of rare events Importance sampling and splitting are presented along with an exposition of how to apply these tools to a variety of fields ranging from performance and dependability evaluation of complex systems typically in computer science or in telecommunications to chemical reaction

analysis in biology or particle transport in physics Graduate students researchers and practitioners who wish to learn and apply rare event simulation techniques will find this book beneficial

Damage Tolerance and Reliability of Turbine Engine Components Christos C. Chamis, 1999 This report describes a formal method to quantify structural damage tolerance and reliability in the presence of a multitude of uncertainties in turbine engine components The method is based at the material behavior level where primitive variables with their respective scatter ranges are used to describe behavior Computational simulation is then used to propagate the uncertainties to the structural scale where damage tolerance and reliability are usually specified Several sample cases are described to illustrate the effectiveness versatility and maturity of the method Typical results from this method demonstrate that it is mature and that it can be used to probabilistically evaluate turbine engine structural components It may be inferred from the results that the method is suitable for probabilistically predicting the remaining life in aging or deteriorating structures for making strategic projections and plans and for achieving better cheaper faster products that give competitive advantages in world markets

Unveiling the Magic of Words: A Overview of "**Reliable Methods For Computer Simulation**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Reliable Methods For Computer Simulation**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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