

**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

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

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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 one 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, 2018-10-10. 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.

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

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

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

Reliability Abstracts and Technical Reviews , 1970

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

NBS Special Publication , 1968

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

Reliability Management and Engineering Harish Garg, Mangey Ram, 2020-06-15 Reliability technology plays an important role in the present era of industrial growth optimal efficiency and reducing hazards This book provides insights into current advances and developments in reliability engineering and the research presented is spread across all branches It discusses interdisciplinary solutions to complex problems using different approaches to save money time and manpower It presents methodologies of coping with uncertainty in reliability optimization through the usage of various techniques such as soft computing fuzzy optimization uncertainty and maintenance scheduling Case studies and real world examples are presented along with applications that can be used in practice This book will be useful to researchers academicians and practitioners working in the area of reliability and systems assurance engineering Provides current advances and developments across different branches of engineering Reviews and analyses case studies and real world examples Presents applications to be used in practice Includes numerous examples to illustrate theoretical results Diagnostics and

Reliability of Pipeline Systems Sviatoslav Timashev, Anna Bushinskaya, 2016-03-17 The book contains solutions to fundamental problems which arise due to the logic of development of specific branches of science which are related to pipeline safety but mainly are subordinate to the needs of pipeline transportation The book deploys important but not yet solved aspects of reliability and safety assurance of pipeline systems which are vital aspects not only for the oil and gas industry and in general fuel and energy industries but also to virtually all contemporary industries and technologies The volume will be useful to specialists and experts in the field of diagnostics inspection monitoring reliability and safety of critical infrastructures First and foremost it will be useful to the decision making persons operators of different types of pipelines pipeline diagnostics inspection vendors and designers of in line inspection ILI tools industrial and ecological safety specialists as well as to researchers and graduate students **Computer Literature Bibliography** United States. National

Bureau of Standards, 1965 *Probabilistic Structural Mechanics: Advances in Structural Reliability Methods* Pol D. Spanos, Y.-T. Wu, 2013-03-13 This symposium is the seventh of a series of IUTAM sponsored symposia which focus on probabilistic methods in mechanics It is the sequel to the series of meetings in Coventry UK 1972 Southampton UK 1976

Frankfurt Oder Germany 1982 Stockholm Sweden 1984 Innsbruck Igls Austria 1987 and Turin Italy 1991 The symposium focused on advances in the area of probabilistic mechanics with direct application to structural reliability issues The contributed papers address collectively the four components of a structural reliability problem They are characterization of stochastic loads description of material properties in terms of fatigue and fracture response determination and quantitative assessment of the reliability of the structural system Four Keynote Lectures by V Bolotin Russia o Ditlevsen Denmark R Heller USA and F Ziegler Austria were delivered the remaining contributed papers were organized in ten technical sessions A reception was hosted by Dr Y Wu the first day of the symposium the second day of the symposium a banquet was hosted by Dr P Spanos with Dr N Abramson serving as the banquet speaker Closing remarks were provided by the IUTAM Secretary General Dr F Ziegler

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

C, H, N and O in Si and Characterization and Simulation of Materials and Processes A. Borghesi, U.M. Gösele, J. Vanhellemont, A.M. Gué, M. Djafari-Rouhani, 2012-12-02 Containing over 200 papers this volume contains the proceedings of two symposia in the E MRS series Part I presents a state of the art review of the topic Carbon Hydrogen Nitrogen and Oxygen in Silicon and in Other Elemental Semiconductors There was strong representation from the industrial laboratories illustrating that the topic is highly relevant for the semiconductor industry The second part of the volume deals with a topic which is undergoing a process of convergence with two concerns that are more particularly application oriented Firstly the advanced instrumentation which through the use of atomic force and tunnel microscopies high resolution electron microscopy and other high precision analysis instruments now allows for direct access to atomic mechanisms Secondly the technological development which in all areas of applications particularly in the field of microelectronics and microsystems requires as a result of the miniaturisation race a precise mastery of the microscopic mechanisms

Error Control, Adaptive Discretizations, and Applications, Part 1, 2024-06-29 Error Control Adaptive Discretizations and Applications Volume 58 Part One highlights new advances in the field with this new volume presenting

interesting chapters written by an international board of authors Chapters in this release cover hp adaptive Discontinuous Galerkin strategies driven by a posteriori error estimation with application to aeronautical flow problems An anisotropic mesh adaptation method based on gradient recovery and optimal shape elements and Model reduction techniques for parametrized nonlinear partial differential equations Covers multi scale modeling Includes updates on data driven modeling Presents the latest information on large deformations of multi scale materials *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

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