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Dependability of Engineering Systems

Modeling and Evaluation



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Dependability Of Engineering Systems Modeling And Evaluation

Alessandro Birolini



Dependability Of Engineering Systems Modeling And Evaluation:

Dependability of Engineering Systems Jovan M. Nahman, 2002 The book offers a sound easily readable theoretical back ground for dependability prediction and analysis of engineering systems The book bridges the gap between the real life dependability problems and very sophisticated and highly specialized books in this field It is addressed to a broad readership including practicing engineers reliability analysts and postgraduate students of engineering faculties The professionals in the field may also find some new material that is not covered in available textbooks such as fuzzy logic evaluation of dependability performance uncertainty assessment open loop sequential analysis of discrete state stochastic processes approximate solving of Markov systems

Reliability Evaluation of Engineering Systems Roy Billinton, 2013-03-09 This book has evolved from our deep interest and involvement in the development and application of reliability evaluation techniques Its scope is not limited to any one engineering discipline as the concepts and basic techniques for reliability evaluation have no disciplinary boundaries and are applicable in most if not all engineering applications We firmly believe that reliability evaluation is an important and integral feature of the planning design and operation of all engineering systems from the smallest and most simple to the largest and most complex Also we believe that all engineers involved with such systems should be aware of and appreciate not only the benefits which can accrue from reliability assessment but also how such assessments can be made Our primary objective has been to compile a book which provides practising engineers and engineering graduates who have little or no background in probability theory or statistics with the concepts and basic techniques for evaluating the reliability of engineering systems It is hoped that the material presented will enable them to reach quickly a level of self confidence which will permit them to assimilate understand and appreciate the more detailed applications and additional material which is available in the journals and publications associated with their own discipline

Model-Driven Dependability Assessment of Software Systems Simona Bernardi, José Merseguer, Dorina Corina Petriu, 2013-10-22 Over the last two decades a major challenge for researchers working on modeling and evaluation of computer based systems has been the assessment of system Non Functional Properties NFP such as performance scalability dependability and security In this book the authors present cutting edge model driven techniques for modeling and analysis of software dependability Most of them are based on the use of UML as software specification language From the software system specification point of view such techniques exploit the standard extension mechanisms of UML i.e UML profiling UML profiles enable software engineers to add non functional properties to the software model in addition to the functional ones The authors detail the state of the art on UML profile proposals for dependability specification and rigorously describe the trade off they accomplish The focus is mainly on RAMS reliability availability maintainability and safety properties Among the existing profiles they emphasize the DAM Dependability Analysis and Modeling profile which attempts to unify under a common umbrella the previous UML profiles from literature providing capabilities for dependability specification and

analysis In addition they describe two prominent model to model transformation techniques which support the generation of the analysis model and allow for further assessment of different RAMS properties Case studies from different domains are also presented in order to provide practitioners with examples of how to apply the aforementioned techniques Researchers and students will learn basic dependability concepts and how to model them using UML and its extensions They will also gain insights into dependability analysis techniques through the use of appropriate modeling formalisms as well as of model to model transformation techniques for deriving dependability analysis models from UML specifications Moreover software practitioners will find a unified framework for the specification of dependability requirements and properties of UML and will benefit from the detailed case studies

Reliability Engineering Alessandro Birolini, 2013-08-15 This book shows how to build in evaluate and demonstrate reliability and availability of components equipment systems It presents the state of the art of reliability engineering both in theory and practice and is based on the author's more than 30 years experience in this field half in industry and half as Professor of Reliability Engineering at the ETH Zurich The structure of the book allows rapid access to practical results This final edition extend and replace all previous editions New are in particular a strategy to mitigate incomplete coverage a comprehensive introduction to human reliability with design guidelines and new models and a refinement of reliability allocation design guidelines for maintainability and concepts related to regenerative stochastic processes The set of problems for homework has been extended Methods tools are given in a way that they can be tailored to cover different reliability requirement levels and be used for safety analysis Because of the Appendices A6 A8 the book is also self contained from a mathematical point of view and can be used as a text book or as a desktop reference with a large number of tables 60 figures 190 and examples 210 of which 70 as problems for homework to support the practical aspects

Architecting Dependable Systems Rogério de Lemos, Cristina Gacek, Alexander Romanovsky, 2007-08-01 As software systems become more and more ubiquitous the issues of dependability become more and more critical Given that solutions to these issues must be planned at the beginning of the design process it is appropriate that these issues be addressed at the architectural level This book is inspired by the ICSE 2002 Workshop on Architecting Dependable Systems it is devoted to current topics relevant for improving the state of the art for architecting dependability Some of the 13 peer reviewed papers presented were initially presented at the workshop others were invited in order to achieve competent and complete coverage of all relevant aspects The papers are organized in topical sections on architectures for dependability fault tolerance in software architectures dependability analysis in software architectures industrial experience

Recent Advances in Reliability and Quality in Design Hoang Pham, 2008-05-20 This book presents the latest theories and methods of reliability and quality with emphasis on reliability and quality in design and modelling Each chapter is written by active researchers and professionals with international reputations providing material which bridges the gap between theory and practice to trigger new practices and research challenges The book therefore provides a state of the art survey of reliability and quality

in design and practices *Dependability for Systems with a Partitioned State Space* Attila Csenki, 2012-12-06 Probabilistic models of technical systems are studied here whose finite state space is partitioned into two or more subsets The systems considered are such that each of those subsets of the state space will correspond to a certain performance level of the system The crudest approach differentiates between working and failed system states only Another more sophisticated approach will differentiate between the various levels of redundancy provided by the system The dependability characteristics examined here are random variables associated with the state space's partitioned structure some typical ones are as follows The sequence of the lengths of the system's working periods The sequences of the times spent by the system at the various performance levels The cumulative time spent by the system in the set of working states during the first m working periods The total cumulative up time of the system until final breakdown The number of repair events during a finite time interval The number of repair events until final system breakdown Any combination of the above These dependability characteristics will be discussed within the Markov and semi Markov frameworks *Architecting Dependable Systems IV* Rogério de Lemos, 2007-08-15 As software systems become ubiquitous the issues of dependability become more and more crucial This state of the art survey contains 18 expanded and peer reviewed papers based on the carefully selected contributions to the Workshop on Architecting Dependable Systems WADS 2006 organized at the 2006 International Conference on Dependable Systems and Networks DSN 2006 held in Philadelphia PA USA in June 2006 **Handbook of Engineering Systems Design** Anja Maier, Josef Oehmen, Pieter E. Vermaas, 2022-07-30 This handbook charts the new engineering paradigm of engineering systems It brings together contributions from leading thinkers in the field and discusses the design management and enabling policy of engineering systems It contains explorations of core themes including technical and socio organisational complexity human behaviour and uncertainty The text includes chapters on the education of future engineers the way in which interventions can be designed and presents a look to the future This book follows the emergence of engineering systems a new engineering paradigm that will help solve truly global challenges This global approach is characterised by complex sociotechnical systems that are now co dependent and highly integrated both functionally and technically as well as by a realisation that we all share the same climate natural resources a highly integrated economical system and a responsibility for global sustainability goals The new paradigm and approach requires the re designing of engineering systems that take into account the shifting dynamics of human behaviour the influence of global stakeholders and the need for system integration The text is a reference point for scholars engineers and policy leaders who are interested in broadening their current perspective on engineering systems design and in devising interventions to help shape societal futures , **Reliability Analysis of Modern Power Systems** R. K. Saket, Sanjeevikumar Padmanaban, 2024-09-04 A reader friendly introduction to reliability analysis and its power systems applications The subset of probability theory known as reliability theory analyzes the likelihood of failure in a given component or system under given conditions It is a critical

aspect of engineering as it concerns systems of all kinds not least modern power systems with their essential role in sustaining the technologies on which modern life relies Reliability Analysis of Modern Power Systems is a thorough accessible book introducing the core concepts of reliability theory as they apply to power systems engineering as well as the advanced technologies currently driving new frontiers in reliability analysis It is a must own for anyone looking to understand and improve the systems that power our world Readers will also find Detailed discussion of reliability modeling and simulation of composite systems using Typhoon HIL 404 Reliability assessment of generation systems transmission systems distribution systems and more Information on renewable energy integration for more sustainable power grids Reliability Analysis of Modern Power Systems is ideal for professionals engineers and researchers in power system design and reliability engineering as well as for advanced undergraduate and graduate students in these and related subjects **Handbook of**

Reliability Engineering Hoang Pham, 2006-04-12 An effective reliability programme is an essential component of every product s design testing and efficient production From the failure analysis of a microelectronic device to software fault tolerance and from the accelerated life testing of mechanical components to hardware verification a common underlying philosophy of reliability applies Defining both fundamental and applied work across the entire systems reliability arena this state of the art reference presents methodologies for quality maintainability and dependability Featuring Contributions from 60 leading reliability experts in academia and industry giving comprehensive and authoritative coverage A distinguished international Editorial Board ensuring clarity and precision throughout Extensive references to the theoretical foundations recent research and future directions described in each chapter Comprehensive subject index providing maximum utility to the reader Applications and examples across all branches of engineering including IT power automotive and aerospace sectors The handbook s cross disciplinary scope will ensure that it serves as an indispensable tool for researchers in industrial electrical electronics computer civil mechanical and systems engineering It will also aid professional engineers to find creative reliability solutions and management to evaluate systems reliability and to improve processes For student research projects it will be the ideal starting point whether addressing basic questions in communications and electronics or learning advanced applications in micro electro mechanical systems MEMS manufacturing and high assurance engineering systems **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

Risk Modeling, Analysis and Control of Multi-energy Systems Yonghua Song, Yi Ding, Minglei Bao, Sheng Wang, Changzheng Shao, 2023-06-08 This book focuses on the risk modeling analysis and control of multi energy systems considering cross sectorial failure propagation Both models and methods have been addressed with engineering practice This is accomplished by doing a thorough investigation into the modeling of system physics and reliabilities in both long and short term phases Different models and methods to evaluate the risk of multi energy systems considering various disturbances e g component failures load uncertainties and extreme weather are studied in detail Furthermore several risk control strategies for multi energy systems such as long term capacity planning and integrated demand response are analyzed in this book which is especially suited for readers interested in system risk management The book can benefit researchers engineers and graduate students in the fields of electrical and electronic engineering energy engineering complex network and control engineering etc

Reliability Analysis and Maintenance Optimization of Complex Systems Qian Qian Zhao, Il Han Chung, Junjun Zheng, Jongwoon Kim, 2025-01-16 This book is a comprehensive guide to methodologies for analyzing reliability and optimizing maintenance in complex systems spanning from initial design to operational stages The book comprises 20 chapters each addressing different research topics in the reliability and maintenance of complex systems These chapters are authored by esteemed professors and researchers in the field of reliability engineering and they are organized as follows System Reliability Modeling 8 chapters Optimal Maintenance Models 4 chapters System Performance and Availability Analysis 3 chapters and Reliability Testing and Accelerated Life Tests 2 chapters The remaining chapters focus on reliability testing and life data analysis The book offers an in depth exploration of various techniques algorithms and practical industry applications making it an invaluable resource for researchers engaged in system reliability analysis and maintenance optimization as well as for practical engineers and industrial managers This book will be useful to students researchers and engineers in understanding the latest research issues and techniques in reliability and maintenance engineering

Optimal Reliability Modeling Way Kuo, Ming J. Zuo, 2003-02-17 Promotes better ways to diagnose maintain and improve existing systems Existing reliability evaluation models are examined with respect to today s complicated engineering systems that have hundreds of thousands of integrated component designs

Scientific and Technical Aerospace Reports, 1992

System Reliability Assessment and Optimization Yan-Fu Li, Enrico Zio, 2022-06-07 This book offers a comprehensive overview of recently developed methods for

assessing and optimizing system reliability It consists of two main parts for treating assessment methods and optimization methods respectively The first part covers methods of multi state system reliability modelling and evaluation Markov processes Monte Carlo simulation and uncertainty analysis The methods considered range from piecewise deterministic Markov processes to belief function analysis The second part covers optimization methods of mathematical programming and evolutionary algorithms and problems of multi objective optimization and optimization under uncertainty The methods of this part range from non dominated sorting genetic algorithm to robust optimization The book also includes the application of the assessment and optimization methods considered on real case studies particularly with respect to the reliability assessment and optimization of renewable energy systems and bridges the gap between theoretical method development and engineering practice

Advanced Reliability Modeling - Proceedings Of The 2004 Asian International Workshop (Aiwarm 2004) Tadashi Dohi, Won Young Yun, 2004-08-17 The 2004 Asian International Workshop on Advanced Reliability Modeling is a symposium for the dissemination of state of the art research and the presentation of practice in reliability engineering and related issues in Asia It brings together researchers scientists and practitioners from Asian countries to discuss the state of research and practice in dealing with reliability issues at the system design modeling level and to jointly formulate an agenda for future research in this engineering area The proceedings cover all the key topics in reliability maintainability and safety engineering providing an in depth presentation of theory and practice The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences

Software Reliability Modeling Shigeru Yamada, 2013-10-24 Software reliability is one of the most important characteristics of software product quality Its measurement and management technologies during the software product life cycle are essential to produce and maintain quality reliable software systems Part 1 of this book introduces several aspects of software reliability modeling and its applications Hazard rate and nonhomogeneous Poisson process NHPP models are investigated particularly for quantitative software reliability assessment Further imperfect debugging and software availability models are discussed with reference to incorporating practical factors of dynamic software behavior Three software management problems are presented as application technologies of software reliability models the optimal software release problem the statistical testing progress control and the optimal testing effort allocation problem Part 2 of the book describes several recent developments in software reliability modeling and their applications as quantitative techniques for software quality reliability measurement and assessment The discussion includes a quality engineering analysis of human factors affecting software reliability during the design review phase which is the upper stream of software development as well as software reliability growth models based on stochastic differential equations and discrete calculus during the testing phase which is the lower stream The final part of the book provides an illustration of quality oriented software management analysis by applying the multivariate

analysis method and the existing software reliability growth models to actual process monitoring data

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