DIMENSIONS OF DEPENDABILITY



Mathematics Of Dependable Systems

J. G. McWhirter, I. K. Proudler, Institute of Mathematics and Its Applications

Mathematics Of Dependable Systems:

Mathematics of Dependable Systems Chris Mitchell, Victoria Stavridou, 1995 Dependable systems is all about setting up controls to ensure maximum security reliability and safety in engineering and technology With the increased use of computerized controls in airliners manufacturing plants and nuclear power stations the topic is a significant one for computer scientists and engineers These are the edited proceedings of the first international conference on the Mathematics of Dependable Systems which took place at Royal Holloway University of London in 1993 The goal of the conference was to identify unifying mathematical schemes for safety and security to enable interaction of ideas from different fields Contributions from active researchers focus on safety critical systems software testing and reliability computer security entity authentication formal methods and fault tolerance *Conference on Mathematics of Dependable Systems* ,1995

<u>Software for Dependable Systems</u> National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Certifiably Dependable Software Systems, 2007-09-14 The focus of Software for Dependable Systems is a set of fundamental principles that underlie software system dependability and that suggest a different approach to the development and assessment of dependable software Unfortunately it is difficult to assess the dependability of software The field of software engineering suffers from a pervasive lack of evidence about the incidence and severity of software failures about the dependability of existing software systems about the efficacy of existing and proposed development methods about the benefits of certification schemes and so on There are many anecdotal reports

which although often useful for indicating areas of concern or highlighting promising avenues of research do little to establish a sound and complete basis for making policy decisions regarding dependability. The committee regards claims of extraordinary dependability that are sometimes made on this basis for the most critical of systems as unsubstantiated and perhaps irresponsible This difficulty regarding the lack of evidence for system dependability leads to two conclusions 1 that better evidence is needed so that approaches aimed at improving the dependability of software can be objectively assessed and 2 that for now the pursuit of dependability in software systems should focus on the construction and evaluation of evidence The committee also recognized the importance of adopting the practices that are already known and used by the best developers this report gives a sample of such practices Some of these such as systematic configuration management and automated regression testing are relatively easy to adopt others such as constructing hazard analyses and threat models exploiting formal notations when appropriate and applying static analysis to code will require new training for many developers However valuable though these practices are in themselves no silver bullet and new techniques and methods will be required in order to build future software systems to the level of dependability that will be required Mathematics of Heat Transfer G. E. Tupholme, A. S. Wood, 1998-07-09 During this century as no other the two themes of mathematics and heat transfer have become inextricably intertwined and it was with this underlying sentiment that this volume was conceived It includes contributions from fifteen countries throughout the world covering various problems in heat transfer The contributors work in diverse fields and include mathematicians theoretical engineers experimentalists and industrialists

Mathematical Methods in Survival Analysis, Reliability and Quality of Life Catherine Huber, Nikolaos Limnios, Mounir Mesbah, Mikhail S. Nikulin, 2013-03-01 Reliability and survival analysis are important applications of stochastic mathematics probability statistics and stochastic processes that are usually covered separately in spite of the similarity of the involved mathematical theory This title aims to redress this situation it includes 21 chapters divided into four parts Survival analysis Reliability Quality of life and Related topics Many of these chapters were presented at the European Seminar on Mathematical Methods for Survival Analysis Reliability and Quality of Life in 2006 **Mathematics in Signal Processing** V J. G. McWhirter, I. K. Proudler, Institute of Mathematics and Its Applications, 2002 This is a collection of papers from the IMA conference on Mathematics in Signal Processing Signal processing is an important industrial area for the application of mathematical concepts it has recently been fuelled by developments in mobile communications multimedia systems and digital TV This collection of papers presents a good coverage of current activity on this subject worldwide and is of interest to those in industry carrying out research into signal processing for communications sonar radar navigation and biomedical applications and to academic mathematicians identifying new mathematical problems **Mathematical Methods of** Reliability Theory B. V. Gnedenko, Yu. K. Belyayev, A. D. Solovyev, 2014-06-20 Mathematical Methods of Reliability Theory discusses fundamental concepts of probability theory mathematical statistics and an exposition of the relationships among

the fundamental quantitative characteristics encountered in the theory The book deals with the set theoretic approach to reliability theory and the central concepts of set theory to the phenomena It also presents methods of finding estimates for reliability parameters based on observations and methods of testing reliability hypotheses Based on mathematical statistics the book also explains formulation of some selected results It presents a method that increases the reliability of manufactured articles redundancy An important part of product quality control is the standards of acceptance sampling plans which require simplicity wide content for flexibility comprehensive characteristics and variability. The book also tackles economical and rational methods of sampling inspections highlighting the need for a correct evaluation of environmental conditions the factors which predetermine the choice of the inspection method. The book then explains how to estimate the efficiency of the operation of the sampling plan after its selection. The book can be helpful for engineers mathematicians economists or industrial managers as well as for other professionals who work in the technological political research structural and physico chemical areas Mathematical and Statistical Models and Methods in Reliability V.V. Rykov, N. Balakrishnan, M.S. Nikulin, 2010-11-02 The book is a selection of invited chapters all of which deal with various aspects of mathematical and statistical models and methods in reliability Written by renowned experts in the field of reliability the contributions cover a wide range of applications reflecting recent developments in areas such as survival analysis aging lifetime data analysis artificial intelligence medicine carcinogenesis studies nuclear power financial modeling aircraft engineering quality control and transportation Mathematical and Statistical Models and Methods in Reliability is an excellent reference text for researchers and practitioners in applied probability and statistics industrial statistics engineering medicine finance transportation the oil and gas industry and artificial intelligence Mathematical Modeling and Simulation of Systems Volodymyr Kazymyr, Anatoliy Morozov, Alexander Palagin, Serhiy Shkarlet, Nikolai Stoianov, Dmitri Vinnikov, Mark Zheleznyak, 2025-04-29 This book contains papers on mathematical modeling and simulation of processes in various areas in ecology and the environment manufacturing and energetics information technology samples of special purpose equipment and cyber physical systems In the context of comprehensive digitalization computer modeling becomes a direct component of creating and operating modern complex multi domain systems. The outcomes presented in the book will be useful to specialists involved in the modeling of real world and cyber physical systems physical processes simulation management and decision making models functioning and cybersecurity models modeling software and tools Scientists have the opportunity to familiarize themselves with the latest research in a variety of solutions proposed by leading scientists and to determine promising directions for solving complex scientific and practical tasks Chapters of this book contain papers presented at the 19th MODS International Conference November 11 13 2024 Chernihiv Ukraine **Mathematical** Concepts of Dependable Systems Mathematisches Forschungsinstitut, 1990 **Technological Innovations in Adaptive** and Dependable Systems: Advancing Models and Concepts De Florio, Vincenzo, 2012-03-31 This book provides high

quality effective approaches to design develop maintain evaluate and benchmark adaptive and dependable systems that are built to sustain quality of service and experience despite the occurrence of potentially significant and sudden changes or failures in their infrastructure and surrounding environments Provided by publisher Mixing and Dispersion in Stably **Stratified Flows** P. A. Davies, Institute of Mathematics and Its Applications, 1999 Stratified flows are important in determining how various atmospheric and environmental processes occur The book investigates these processes and focuses on the methods by which pollutants are mixed and dispersed in natural and industrial environments **Dependable Systems III** Rogério de Lemos, Cristina Gacek, 2005-09-15 As software systems become ubiquitous the issues of dependability become more and more crucial Given that solutions to these issues must be considered from the very beginning of the design process it is reasonable that dependability is addressed at the architectural level This book comes as a result of an effort to bring together the research communities of software architectures and dependability This state of the art survey contains 16 carefully selected papers originating from the Twin Workshops on Architecting Dependable Systems WADS 2004 accomplished as part of the International Conference on Software Engineering ICSE 2004 in Edinburgh UK and of the International Conference on Dependable Systems and Networks DSN 2004 in Florence Italy The papers are organised in topical sections on architectures for dependable services monitoring and reconfiguration in software architectures dependability support for software architectures architectural evaluation and architectural abstractions for dependability

Architecting Dependable Systems VII Antonio Casimiro, Rogério de Lemos, Cristina Gacek, 2010-11-18 As software systems become increasingly ubiquitous issues of dependability become ever more crucial Given that solutions to these issues must be considered from the very beginning of the design process it is clear that dependability and security have to be addressed at the architectural level This book as well as its six predecessors was born of an effort to bring together the research communities of software architectures dependability and security This state of the art survey contains expanded peer reviewed papers based on selected contributions from the Workshop on Architecting Dependable Systems WADS 2009 held at the International Conference on Dependable Systems and Networks DSN 2009 as well as a number of invited papers written by renowned experts in the area The 13 papers are organized in topical sections on mobile and ubiquitous systems architecting systems fault management and experience and vision International Conference on Reliable Systems Engineering (ICORSE) - 2022 Daniela Doina Cioboată, 2022-08-25 This book provides both researchers in the academia students and industrial experts the chance to exchange new ideas build relations and find virtual partners It is a scientific event whose proceedings have set a very high standard ICORSE s distinctive feature is represented by its breadth of topics mechatronics integronics and adaptronics reliable systems engineering cyber physical systems optics theoretical and applied mechanics robotics modelling and simulation smart integrated control systems computer imaging processing smart bio medical and bio mechatronic systems MEMS and NEMS new materials sensors and transducers nano chemistry physical

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