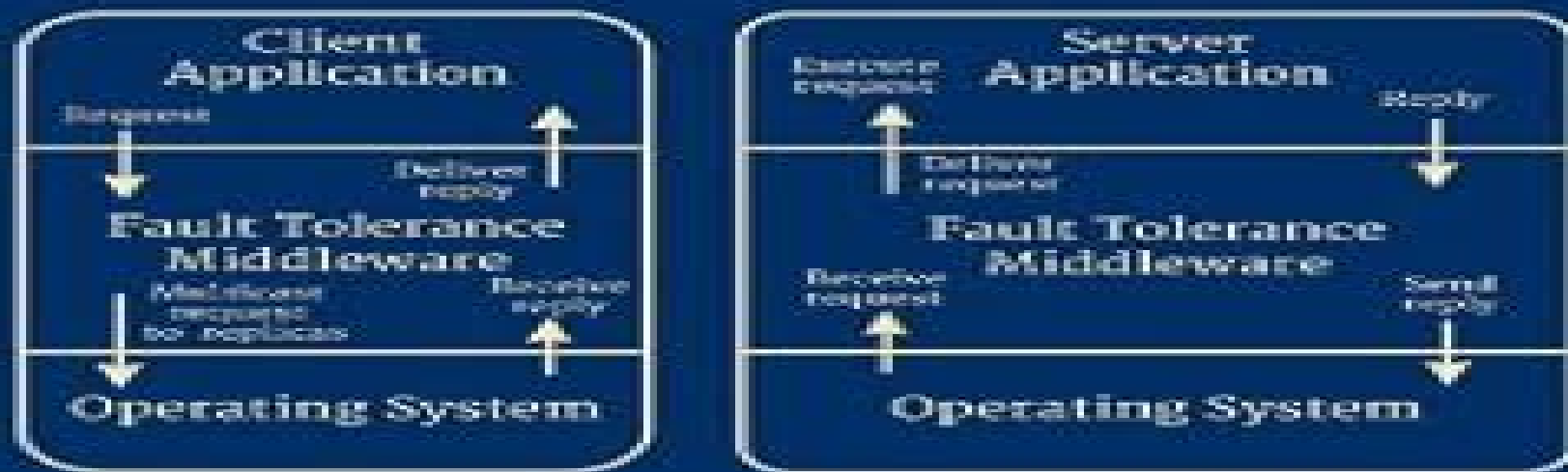


Building Dependable Distributed Systems



Wenbing Zhao

Building Dependable Distributed Systems Performability Engineering Series

Liudong Xing, Suprasad V. Amari



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Building Dependable Distributed Systems Wenbing Zhao, 2014-03-06 A one volume guide to the most essential techniques for designing and building dependable distributed systems Instead of covering a broad range of research works for each dependability strategy this useful reference focuses on only a selected few usually the most seminal works the most practical approaches or the first publication of each approach explaining each in depth usually with a comprehensive set of examples Each technique is dissected thoroughly enough so that readers who are not familiar with dependable distributed computing can actually grasp the technique after studying the book Building Dependable Distributed Systems consists of eight chapters The first introduces the basic concepts and terminology of dependable distributed computing and also provides an overview of the primary means of achieving dependability Checkpointing and logging mechanisms which are the most commonly used means of achieving limited degree of fault tolerance are described in the second chapter Works on recovery oriented computing focusing on the practical techniques that reduce the fault detection and recovery times for Internet based applications are covered in chapter three Chapter four outlines the replication techniques for data and service fault tolerance This chapter also pays particular attention to optimistic replication and the CAP theorem Chapter five explains a few seminal works on group communication systems Chapter six introduces the distributed consensus problem and covers a number of Paxos family algorithms in depth The Byzantine generals problem and its latest solutions including the seminal Practical Byzantine Fault Tolerance PBFT algorithm and a number of its derivatives are introduced in chapter seven The final chapter details the latest research results surrounding application aware Byzantine fault tolerance which represents an important step forward in the practical use of Byzantine fault tolerance techniques

Design and Manufacturing Practices for Performability Engineering Sanjay Kumar Chaturvedi, Heeralal Gargama, Rajiv Nandan Rai, 2025-08-19 As technology continues to reshape the world this book stands as a testament to the importance of maintaining the highest standards of performability engineering in the pursuit of progress I expect that this book will inspire the next generation of innovators and problem solvers to tackle the challenges and opportunities of today and tomorrow ensuring a future where technology serves humanity with utmost dependability and safety Professor Way Kuo in the Foreword to Design and Manufacturing Practices for Performability Engineering There are several aspects involved when evaluating a system s performance such as reliability cost quality safety maintainability risks and performance related characteristics Performability engineering provides a unified framework for integrating these aspects in a quantified manner enabling informed decisions about a system However this field faces the daunting task of unifying diversified disciplines and theories that address issues such as quality reliability availability maintainability and safety QRAMS as well as engineering characteristics statistical data analysis multi criteria decision making and applications of deep and machine learning This book documents the latest ideas presented by world leaders in the QRAMS domain Through diverse chapters this volume represents the vitality of QRAMS in performability

engineering Design and Manufacturing Practices for Performability Engineering serves as a useful resource for practicing engineers and researchers pursuing this challenging and relevant area for sustainable development Readers will find the book Describes network reliability measures and algorithms to evaluate them in an easily understandable manner Introduces the notion of global cuts and their applications to evaluate reliability measures and flow network reliability and provides a general framework for reliability evaluation Serves as a valuable reference and primer in the area of network reliability Offers up to date research in the field of network reliability Audience Researchers and educators of reliability engineering electrical computer science electronics and communication engineering with their associated allied areas Industry analysts and design engineers of engineering systems will also find this book valuable Fundamentals of Reliability Engineering Indra Gunawan, 2014-03-10 Provides fundamentals of reliability engineering and illustrates practical applications in the area of parallel distributed systems Multistage Interconnection Networks The first part of the book chapters 1 5 introduces the concept of reliability engineering elements of probability theory probability distributions availability and data analysis The second part of the book chapters 6 11 provides an overview of parallel distributed computing network design considerations classification of multistage interconnection networks network reliability evaluation methods and reliability analysis of multistage interconnection networks including reliability prediction of distributed systems using Monte Carlo method Fundamentals of Reliability Engineering meets the increasing demand for knowledge tools that practicing reliability professionals can use to optimize their reliability decisions Reliability prediction is important as it determines the usability and efficiency of the network to provide services Reliability evaluation methods discussed in this book can be applied to analyze the reliability of any other systems As an example reliability analysis of distributed systems that consist of layers of switching elements connected together in a predefined topology that provide the connectivity between the set of processors and the set of memory modules are presented *Binary Decision Diagrams and Extensions for System Reliability Analysis* Liudong Xing, Suprasad V. Amari, 2015-06-05 Recent advances in science and technology have made modern computing and engineering systems more powerful and sophisticated than ever The increasing complexity and scale imply that system reliability problems not only continue to be a challenge but also require more efficient models and solutions This is the first book systematically covering the state of the art binary decision diagrams and their extended models which can provide efficient and exact solutions to reliability analysis of large and complex systems The book provides both basic concepts and detailed algorithms for modelling and evaluating reliability of a wide range of complex systems such as multi state systems phased mission systems fault tolerant systems with imperfect fault coverage systems with common cause failures systems with disjoint failures and systems with functional dependent failures These types of systems abound in safety critical or mission critical applications such as aerospace circuits power systems medical systems telecommunication systems transmission systems traffic light systems data storage systems and etc The book provides both small scale illustrative

examples and large scale benchmark examples to demonstrate broad applications and advantages of different decision diagrams based methods for complex system reliability analysis Other measures including component importance and failure frequency are also covered A rich set of references is cited in the book providing helpful resources for readers to pursue further research and study of the topics The target audience of the book is reliability and safety engineers or researchers The book can serve as a textbook on system reliability analysis It can also serve as a tutorial and reference book on decision diagrams multi state systems phased mission systems and imperfect fault coverage models

Probabilistic Physics of Failure Approach to Reliability Mohammad Modarres, Mehdi Amiri, Christopher Jackson, 2017-06-23 The book presents highly technical approaches to the probabilistic physics of failure analysis and applications to accelerated life and degradation testing to reliability prediction and assessment Beside reviewing a select set of important failure mechanisms the book covers basic and advanced methods of performing accelerated life test and accelerated degradation tests and analyzing the test data The book includes a large number of very useful examples to help readers understand complicated methods described Finally MATLAB R and OpenBUGS computer scripts are provided and discussed to support complex computational probabilistic analyses introduced

Machine Tool Reliability Bhupesh K. Lad, Divya Shrivastava, Makarand S. Kulkarni, 2016-02-08 This book explores the domain of reliability engineering in the context of machine tools Failures of machine tools not only jeopardize users ability to meet their due date commitments but also lead to poor quality of products slower production down time losses etc Poor reliability and improper maintenance of a machine tool greatly increases the life cycle cost to the user Thus the application area of the present book i e machine tools will be equally appealing to machine tool designers production engineers and maintenance managers The book will serve as a consolidated volume on various dimensions of machine tool reliability and its implications from manufacturers and users point of view From the manufacturers point of view it discusses various approaches for reliability and maintenance based design of machine tools In specific it discusses simultaneous selection of optimal reliability configuration and maintenance schedules maintenance optimization under various maintenance scenarios and cost based FMEA From the users point of view it explores the role of machine tool reliability in shop floor level decision making In specific it shows how to model the interactions of machine tool reliability with production scheduling maintenance scheduling and process quality control

Network Reliability Sanjay Kumar Chaturvedi, 2016-07-12 In Engineering theory and applications we think and operate in terms of logics and models with some acceptable and reasonable assumptions The present text is aimed at providing modelling and analysis techniques for the evaluation of reliability measures 2 terminal all terminal k terminal reliability for systems whose structure can be described in the form of a probabilistic graph Among the several approaches of network reliability evaluation the multiple variable inversion sum of disjoint product approach finds a well deserved niche as it provides the reliability or unreliability expression in a most efficient and compact manner However it does require an efficiently enumerated minimal inputs

minimal path spanning tree minimal k trees minimal cut minimal global cut minimal k cut depending on the desired reliability The present book covers these two aspects in detail through the descriptions of several algorithms devised by the reliability fraternity and explained through solved examples to obtain and evaluate 2 terminal k terminal and all terminal network reliability unreliability measures and could be its USP The accompanying web based supplementary information containing modifiable Matlab source code for the algorithms is another feature of this book A very concerted effort has been made to keep the book ideally suitable for first course or even for a novice stepping into the area of network reliability The mathematical treatment is kept as minimal as possible with an assumption on the readers side that they have basic knowledge in graph theory probabilities laws Boolean laws and set theory

Software Engineering and Computer Systems, Part I Jasni Mohamad Zain, Wan Maseri Wan Mohd, Eyas El-Qawasmeh, 2011-06-24 This Three Volume Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems ICSECS 2011 held in Kuantan Malaysia in June 2011 The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software engineering network bioinformatics and e health biometrics technologies Web engineering neural network parallel and distributed e learning ontology image processing information and data management engineering software security graphics and multimedia databases algorithms signal processing software design testing e technology ad hoc networks social networks software process modeling miscellaneous topics in software engineering and computer systems

Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics Khosrow-Pour, D.B.A., Mehdi, 2018-10-19 From cloud computing to data analytics society stores vast supplies of information through wireless networks and mobile computing As organizations are becoming increasingly more wireless ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative Advanced Methodologies and Technologies in Network Architecture Mobile Computing and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online society Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data This book is an important resource for information technology professionals software developers data analysts graduate level students researchers computer engineers and IT specialists seeking modern information on emerging methods in data mining information technology and wireless networks

Dependable Computing EDCC-4 Fabrizio Grandoni, 2003-08-02 It was with great pleasure that on behalf of the entire organizing committee I welcomed participants to EDCC 4 the Fourth European Dependable Computing Conference held for the first time in France The fourth issue of EDCC carried on the traditions established by the previous conferences in this series EDCC 1 was held in Berlin Germany in October 1994 EDCC 2 in Taormina Italy in October 1996 and EDCC 3 in Prague Czech Republic in September 1999 EDCC evolved from a merger of two other conference series at the

moment when the Iron Curtain fell One of these known as the International Conference on Fault Tolerant Computing Systems was organized during the period 1982 1991 by the German Technical Interest Group Fault Tolerant Computing Systems The other series known as the International Conference on Fault Tolerant Systems and Diagnostics was organized during the period 1975 1990 in the former Czechoslovakia Poland Bulgaria and the former GDR The composition of the EDCC steering committee and the organizing committees of the successive issues of the conference have mirrored the East West unification character of the conference series The EDCC conference is becoming a unique meeting point for researchers and practitioners from all over the world in the field of Dependable Systems It is organized by the SEE Working Group Dependable Computing in France the GI ITG GMA Technical Committee on Dependability and Fault Tolerance in Germany and the AICA Working Group Dependability of Computer Systems in Italy Furthermore committees of several global professional organizations such as IEEE and IFIP support the conference

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