

# Reliable Computer Systems: Design and Evaluation

Siewiorek, Daniel P.

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# Reliable Computer Systems Design And Evaluation

**Harry Wechsler**



## **Reliable Computer Systems Design And Evaluation:**

Reliable Computer Systems Daniel Siewiorek, Robert Swarz, 2014-06-28 Enhance your hardware software reliability Enhancement of system reliability has been a major concern of computer users and designers and this major revision of the 1982 classic meets users continuing need for practical information on this pressing topic Included are case studies of reliable systems from manufacturers such as Tandem Stratus IBM and Digital as well as coverage of special systems such as the Galileo Orbiter fault protection system and AT T telephone switching processors

Reliable Computer Systems Daniel P. Siewiorek, Robert S. Swarz, 1992 This classic reference work is a comprehensive guide to the design evaluation and use of reliable computer systems It includes case studies of reliable systems from manufacturers such as Tandem Stratus IBM and Digital It covers special systems such as the Galileo Orbiter fault protection system and AT T telephone switching system processors

Reliable Computer Systems Daniel P. Siewiorek, Robert S. Swarz, 1998-12-15 This classic reference work is a comprehensive guide to the design evaluation and use of reliable computer systems It includes case studies of reliable systems from manufacturers such as Tandem Stratus IBM and Digital It covers special systems such as the Galileo Orbiter fault protection system and AT T telephone switching system processors

## **Principles of Computer System Design**

Jerome H. Saltzer, M. Frans Kaashoek, 2009-05-21 Principles of Computer System Design is the first textbook to take a principles based approach to the computer system design It identifies examines and illustrates fundamental concepts in computer system design that are common across operating systems networks database systems distributed systems programming languages software engineering security fault tolerance and architecture Through carefully analyzed case studies from each of these disciplines it demonstrates how to apply these concepts to tackle practical system design problems To support the focus on design the text identifies and explains abstractions that have proven successful in practice such as remote procedure call client service organization file systems data integrity consistency and authenticated messages Most computer systems are built using a handful of such abstractions The text describes how these abstractions are implemented demonstrates how they are used in different systems and prepares the reader to apply them in future designs The book is recommended for junior and senior undergraduate students in Operating Systems Distributed Systems Distributed Operating Systems and or Computer Systems Design courses and professional computer systems designers Concepts of computer system design guided by fundamental principles Cross cutting approach that identifies abstractions common to networking operating systems transaction systems distributed systems architecture and software engineering Case studies that make the abstractions real naming DNS and the URL file systems the UNIX file system clients and services NFS virtualization virtual machines scheduling disk arms security TLS Numerous pseudocode fragments that provide concrete examples of abstract concepts Extensive support The authors and MIT OpenCourseWare provide on line free of charge open educational resources including additional chapters course syllabi board layouts and slides lecture videos and an archive of lecture schedules class

assignments and design projects      *Reliability of Computer Systems and Networks* Martin L. Shooman, 2003-04-08 With computers becoming embedded as controllers in everything from network servers to the routing of subway schedules to NASA missions there is a critical need to ensure that systems continue to function even when a component fails In this book bestselling author Martin Shooman draws on his expertise in reliability engineering and software engineering to provide a complete and authoritative look at fault tolerant computing He clearly explains all fundamentals including how to use redundant elements in system design to ensure the reliability of computer systems and networks Market Systems and Networking Engineers Computer Programmers IT Professionals      **Reliable Face Recognition Methods** Harry Wechsler, 2009-04-05 One of the challenges for computational intelligence and biometrics is to understand how people process and recognize faces and to develop automated and reliable face recognition systems Biometrics has become the major component in the complex decision making process associated with security applications The many challenges addressed for face detection and authentication include cluttered environments occlusion and disguise temporal changes robust training and open set testing *Reliable Face Recognition Methods* seeks to comprehensively address the face recognition problem while gaining new insights from complementary fields of endeavor such as neurosciences statistics signal and image processing computer vision machine learning and data mining This book examines the evolution of research surrounding the field to date explores new directions and offers specific guidance on the most promising venues for future research and development Endorsements by Ruud Bolle IBM John Daugman Cambridge University UK David Zhang Hong Kong Polytechnic University China Stan Li Chinese Academy of Sciences China Tom Huang University of Illinois USA

**Design of Dependable Computing Systems** J.C. Geffroy, G. Motet, 2013-03-09 This book analyzes the causes of failures in computing systems their consequences as well as the existing solutions to manage them The domain is tackled in a progressive and educational manner with two objectives 1 The mastering of the basics of dependability domain at system level that is to say independently of the technology used hardware or software and of the domain of application 2 The understanding of the fundamental techniques available to prevent to remove to tolerate and to forecast faults in hardware and software technologies The first objective leads to the presentation of the general problem the fault models and degradation mechanisms which are at the origin of the failures and finally the methods and techniques which permit the faults to be prevented removed or tolerated This study concerns logical systems in general independently of the hardware and software technologies put in place This knowledge is indispensable for two reasons A large part of a product s development is independent of the technological means expression of requirements specification and most of the design stage Very often the development team does not possess this basic knowledge hence the dependability requirements are considered uniquely during the technological implementation Such an approach is expensive and inefficient Indeed the removal of a preliminary design fault can be very difficult if possible if this fault is detected during the product s final testing

Architecting Dependable Systems V Rogério de Lemos, 2008-08-28 This survey contains expanded and peer reviewed papers based on the selected contributions to the Workshop on Architecting Dependable Systems WADS 2007 and the Third Workshop on the Role of Software Architecture for Testing and Analysis ROSATEA 2007

**Design And Analysis Of Reliable And Fault-tolerant Computer Systems** Mostafa I Abd-el-barr, 2006-12-15 Covering both the theoretical and practical aspects of fault tolerant mobile systems and fault tolerance and analysis this book tackles the current issues of reliability based optimization of computer networks fault tolerant mobile systems and fault tolerance and reliability of high speed and hierarchical networks The book is divided into six parts to facilitate coverage of the material by course instructors and computer systems professionals The sequence of chapters in each part ensures the gradual coverage of issues from the basics to the most recent developments A useful set of references including electronic sources is listed at the end of each chapter a

Theory and Engineering of Dependable Computer Systems and Networks Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2021-05-26 This book contains papers on selected aspects of dependability analysis in computer systems and networks which were chosen for discussion during the 16th DepCoS RELCOMEX conference held in Wrocław Poland from June 28 to July 2 2021 Their collection will be a valuable source material for scientists researchers practitioners and students who are dealing with design analysis and engineering of computer systems and networks and must ensure their dependable operation Being probably the most complex technical systems ever engineered by man and also the most dynamically evolving ones organization of contemporary computer systems cannot be interpreted only as structures built on the basis of unreliable technical resources Their evaluation must take into account a specific blend of interacting people their needs and behaviours networks together with mobile properties cloud organization Internet of Everything etc and a large number of users dispersed geographically and constantly producing an unconceivable number of applications Ever growing number of research methods being continuously developed for dependability analyses apply the newest techniques of artificial and computational intelligence Selection of papers in these proceedings illustrates diversity of multi disciplinary topics which are considered in present day dependability explorations

**Dependable Computing Systems** Hassan B. Diab, Albert Y. Zomaya, 2005-10-05 A team of recognized experts leads the way to dependable computing systems With computers and networks pervading every aspect of daily life there is an ever growing demand for dependability In this unique resource researchers and organizations will find the tools needed to identify and engage state of the art approaches used for the specification design and assessment of dependable computer systems The first part of the book addresses models and paradigms of dependable computing and the second part deals with enabling technologies and applications Tough issues in creating dependable computing systems are also tackled including Verification techniques Model based evaluation Adjudication and data fusion Robust communications primitives Fault tolerance Middleware Grid security Dependability in IBM mainframes Embedded software Real time systems Each chapter of this

contributed work has been authored by a recognized expert This is an excellent textbook for graduate and advanced undergraduate students in electrical engineering computer engineering and computer science as well as a must have reference that will help engineers programmers and technologists develop systems that are secure and reliable

Fault-Tolerant Systems Israel Koren,C. Mani Krishna,2010-07-19 Fault Tolerant Systems is the first book on fault tolerance design with a systems approach to both hardware and software No other text on the market takes this approach nor offers the comprehensive and up to date treatment that Koren and Krishna provide This book incorporates case studies that highlight six different computer systems with fault tolerance techniques implemented in their design A complete ancillary package is available to lecturers including online solutions manual for instructors and PowerPoint slides Students designers and architects of high performance processors will value this comprehensive overview of the field The first book on fault tolerance design with a systems approach Comprehensive coverage of both hardware and software fault tolerance as well as information and time redundancy Incorporated case studies highlight six different computer systems with fault tolerance techniques implemented in their design Available to lecturers is a complete ancillary package including online solutions manual for instructors and PowerPoint slides **Fault-tolerant Computer System Design** Dhiraj K.

Pradhan,1996 *Architecture Design for Soft Errors* Shubu Mukherjee,2011-08-29 Architecture Design for Soft Errors provides a comprehensive description of the architectural techniques to tackle the soft error problem It covers the new methodologies for quantitative analysis of soft errors as well as novel cost effective architectural techniques to mitigate them To provide readers with a better grasp of the broader problem definition and solution space this book also delves into the physics of soft errors and reviews current circuit and software mitigation techniques There are a number of different ways this book can be read or used in a course as a complete course on architecture design for soft errors covering the entire book a short course on architecture design for soft errors and as a reference book on classical fault tolerant machines This book is recommended for practitioners in semi conductor industry researchers and developers in computer architecture advanced graduate seminar courses on soft errors and iv as a reference book for undergraduate courses in computer architecture Helps readers build in fault tolerance to the billions of microchips produced each year all of which are subject to soft errors Shows readers how to quantify their soft error reliability Provides state of the art techniques to protect against soft errors

*Dependable Computing* Ravishankar K. Iyer,Zbigniew T. Kalbarczyk,Nithin M. Nakka,2024-04-18 Dependable Computing Covering dependability from software and hardware perspectives Dependable Computing Design and Assessment looks at both the software and hardware aspects of dependability This book Provides an in depth examination of dependability fault tolerance topics Describes dependability taxonomy and briefly contrasts classical techniques with their modern counterparts or extensions Walks up the system stack from the hardware logic via operating systems up to software applications with respect to how they are hardened for dependability Describes the use of measurement based analysis of computing systems

Illustrates technology through real life applications Discusses security attacks and unique dependability requirements for emerging applications e g smart electric power grids and cloud computing Finally using critical societal applications such as autonomous vehicles large scale clouds and engineering solutions for healthcare the book illustrates the emerging challenges faced in making artificial intelligence AI and its applications dependable and trustworthy This book is suitable for those studying in the fields of computer engineering and computer science Professionals who are working within the new reality to ensure dependable computing will find helpful information to support their efforts With the support of practical case studies and use cases from both academia and real world deployments the book provides a journey of developments that include the impact of artificial intelligence and machine learning on this ever growing field This book offers a single compendium that spans the myriad areas in which dependability has been applied providing theoretical concepts and applied knowledge with content that will excite a beginner and rigor that will satisfy an expert Accompanying the book is an online repository of problem sets and solutions as well as slides for instructors that span the chapters of the book

*Predictably Dependable Computing Systems* Brian Randell, Jean-Claude Laprie, Hermann Kopetz, Bev Littlewood, 2013-11-11 **Secure System Design and Trustable Computing** Chip-Hong Chang, Miodrag Potkonjak, 2015-09-17 This book provides the foundations for understanding hardware security and trust which have become major concerns for national security over the past decade Coverage includes issues related to security and trust in a variety of electronic devices and systems related to the security of hardware firmware and software spanning system applications online transactions and networking services This serves as an invaluable reference to the state of the art research that is of critical significance to the security of and trust in modern society's microelectronic supported infrastructures

**Transactions on Computational Science XXIX** Marina L. Gavrilova, C.J. Kenneth Tan, 2017-03-11 This the 29th issue of the Transactions on Computational Science journal is comprised of seven full papers focusing on the area of secure communication Topics covered include weak radio signals efficient circuits multiple antenna sensing techniques modes of inter computer communication and fault types geometric meshes and big data processing in distributed environments

**Reliability and Availability Engineering** Kishor S. Trivedi, Andrea Bobbio, 2017-08-03 Do you need to know what technique to use to evaluate the reliability of an engineered system This self contained guide provides comprehensive coverage of all the analytical and modeling techniques currently in use from classical non state and state space approaches to newer and more advanced methods such as binary decision diagrams dynamic fault trees Bayesian belief networks stochastic Petri nets non homogeneous Markov chains semi Markov processes and phase type expansions Readers will quickly understand the relative pros and cons of each technique as well as how to combine different models together to address complex real world modeling scenarios Numerous examples case studies and problems provided throughout help readers put knowledge into practice and a solutions manual and Powerpoint slides for instructors accompany the book online This is the ideal self study guide for students researchers and practitioners

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**NASA Technical Memorandum** ,1983



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