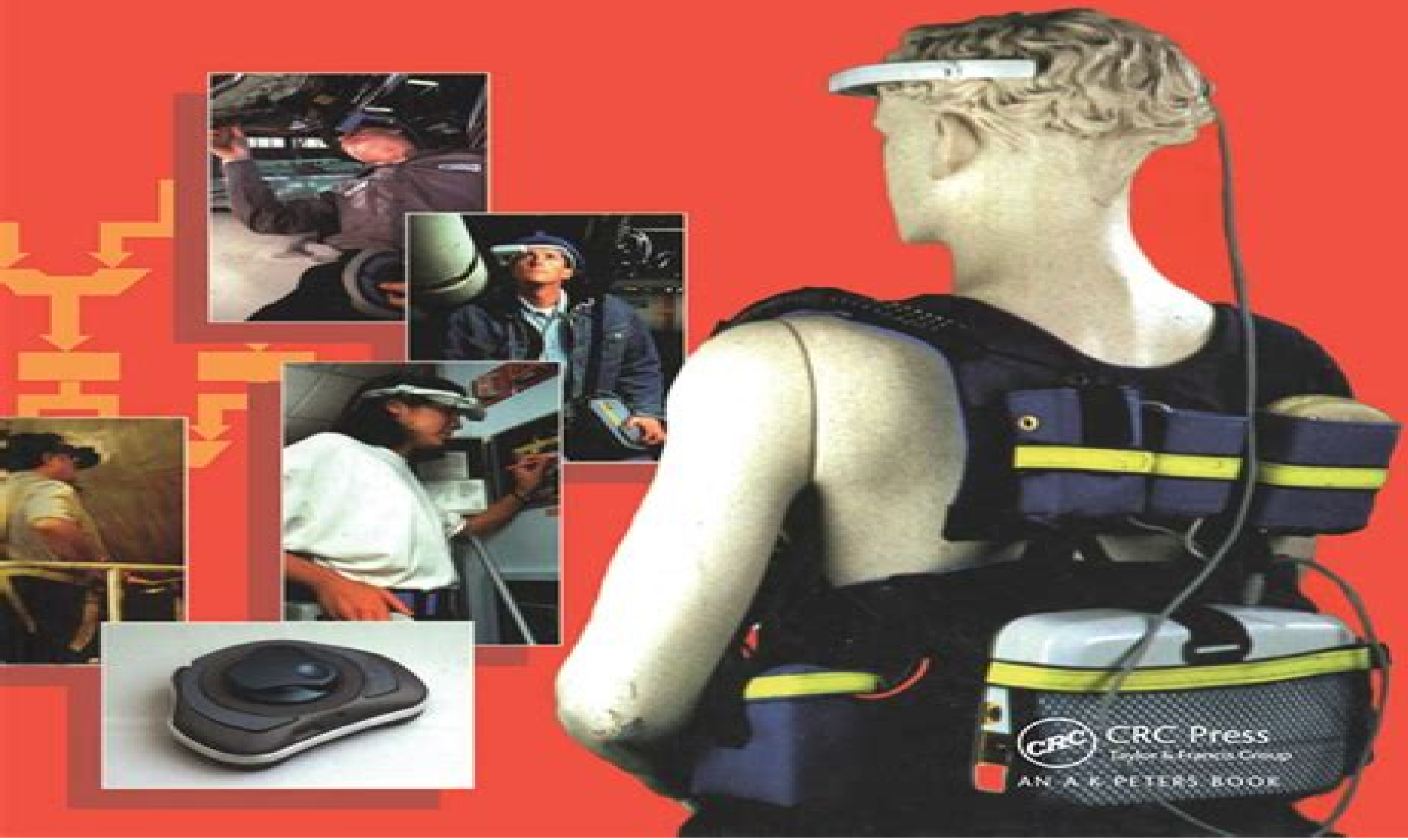


RELIABLE COMPUTER SYSTEMS

DESIGN AND EVALUATION **THIRD EDITION**

DANIEL P. SIEWIOREK and ROBERT S. SWARZ



Reliable Computer Systems Design And Evaluation

Phillip A. Laplante



Reliable Computer Systems Design And Evaluation:

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

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 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 *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

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 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

Reliability of Computer Systems and Networks Martin L. Shooman, 2003-03-25 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 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

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 *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 **Reliability and Availability Engineering** Kishor S. Trivedi,Andrea Bobbio,2017-08-03 Learn about the techniques used for evaluating the reliability and availability of engineered systems with this comprehensive guide

Concurrency in Dependable Computing Paul Ezhilchelvan,Alexander Romanovsky,2013-03-14 Concurrency in Dependable Computing focuses on concurrency related issues in the area of dependable computing Failures of system components be hardware units or software modules can be viewed as undesirable events occurring concurrently with a set of normal system events Achieving dependability therefore is closely related to and also benefits from concurrency theory and formalisms This beneficial relationship appears to manifest into three strands of work Application level structuring of concurrent activities Concepts such as atomic actions conversations exception handling view synchrony etc are useful in structuring concurrent activities so as to facilitate attempts at coping with the effects of component failures Replication induced concurrency management Replication is a widely used technique for achieving reliability Replica management essentially involves ensuring that replicas perceive concurrent events identically Application of concurrency formalisms for dependability assurance Fault tolerant algorithms are harder to verify than their fault free counterparts due to the fact that the impact of component faults at each state need to be considered in addition to valid state transitions CSP Petri nets CCS are useful tools to specify and verify fault tolerant designs and protocols Concurrency in Dependable Computing explores

many significant issues in all three strands To this end it is composed as a collection of papers written by authors well known in their respective areas of research To ensure quality the papers are reviewed by a panel of at least three experts in the relevant area

Encyclopedia of Software Engineering Three-Volume Set (Print) Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

NASA Technical Memorandum, 1983

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

Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Fault-Tolerant Design Elena Dubrova, 2013-03-15 This textbook serves as an introduction to fault tolerance intended for upper division undergraduate students graduate level students and practicing engineers in need of an overview of the field Readers will develop skills in modeling and evaluating fault tolerant architectures in terms of reliability availability and safety They will gain a thorough understanding of fault tolerant computers including both the theory of how to design and evaluate them and the practical knowledge of achieving fault tolerance in electronic communication and software systems Coverage includes fault tolerance techniques through hardware software information and time redundancy The content is designed to be highly accessible including numerous examples and exercises Solutions and powerpoint slides are available for instructors

Economic Market Design and Planning for Electric Power Systems James A. Momoh, Lamine Mili, 2009-11-19 Discover cutting edge developments in electric power systems Stemming from cutting edge research and education activities in the field of electric power systems this book brings together the knowledge of a panel of experts in economics the social sciences and electric power systems In ten concise and comprehensible chapters the book provides

unprecedented coverage of the operation control planning and design of electric power systems It also discusses A framework for interdisciplinary research and education Modeling electricity markets Alternative economic criteria and proactive planning for transmission investment in deregulated power systems Payment cost minimization with demand bids and partial capacity cost compensations for day ahead electricity auctions Dynamic oligopolistic competition in an electric power network and impacts of infrastructure disruptions Reliability in monopolies and duopolies Building an efficient reliable and sustainable power system Risk based power system planning integrating social and economic direct and indirect costs Models for transmission expansion planning based on reconfiguration capacitor switching Next generation optimization for electric power systems Most chapters end with a bibliography closing remarks conclusions or future work Economic Market Design and Planning for Electric Power Systems is an indispensable reference for policy makers executives and engineers of electric utilities university faculty members and graduate students and researchers in control theory electric power systems economics and the social sciences

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