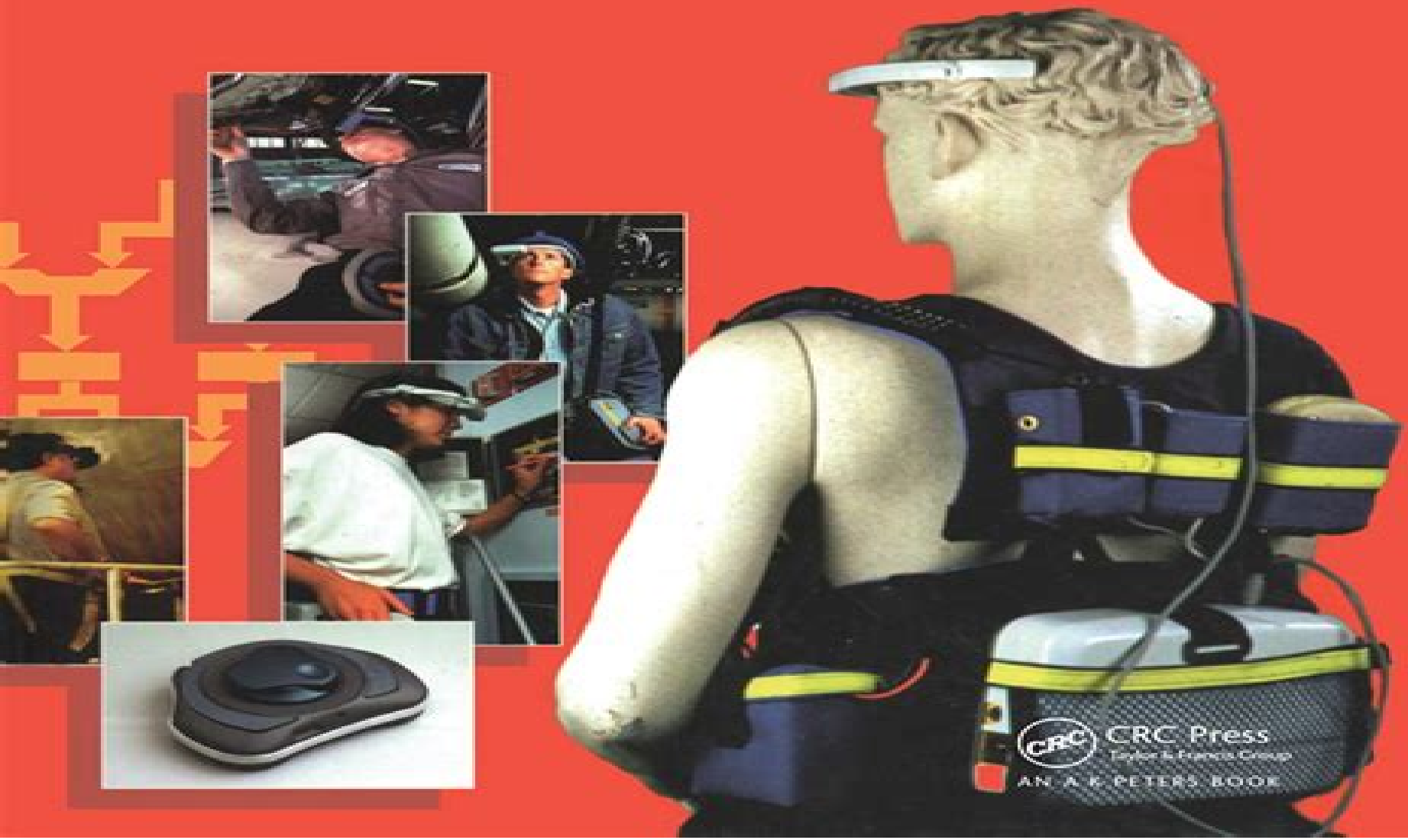


RELIABLE COMPUTER SYSTEMS

DESIGN AND EVALUATION **THIRD EDITION**

DANIEL P. SIEWIOREK and ROBERT S. SWARZ



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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

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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

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.

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 an 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 an online solutions manual for instructors and PowerPoint slides.

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.

Predictably Dependable Computing Systems Brian Randell, Jean-Claude Laprie, Hermann Kopetz, Bev Littlewood, 2013-11-11

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

Performance Evaluation: Origins and Directions Günter Haring,Christoph Lindemann,Martin Reiser,2003-06-29 This monograph like state of the art survey presents the history the key ideas the success stories and future challenges of performance evaluation and demonstrates the impact of performance evaluation on a variety of different areas through case studies in a coherent and comprehensive way Leading researchers in the field have contributed 19 cross reviewed topical chapters competently covering the whole range of performance evaluation from theoretical and methodological issues to applications in numerous other fields Additionally the book contains one contribution on the role of performance evaluation in industry and personal accounts of four pioneering researchers describing the genesis of breakthrough results The book will become a valuable source of reference and indispensable reading for anybody active or interested in performance evaluation

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

NASA Technical Memorandum ,1983 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

Fault-tolerant Computer System Design Dhiraj K. Pradhan,1996

Architecting Dependable Systems V Rogério de Lemos,Felicita Giandomenico,Cristina Gacek,Henry Muccini,Marlon Vieira,2008-08-26 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 was born of an effort to bring together the research communities of software architectures and dependability This state of the art survey contains expanded and peer reviewed papers based on the carefully selected contributions to two workshops the Workshop on Architecting Dependable Systems WADS 2007 organized at the 2007 International Conference on Dependable Systems and Networks DSN 2007 held in Edinburgh UK in June 2007 and the Third Workshop on the Role of Software Architecture for Testing and Analysis ROSATEA 2007 organized as part of a federated conference on Component Based Software Engineering and Software Architecture CompArch 2007 held in Medford MA USA in July 2007 It also contains a number of invited papers written by recognized experts in the area The 14 papers are organized in topical sections on critical infrastructures rigorous design fault tolerance and verification and validation

Computer Science Handbook Allen B. Tucker, 2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap

Design of Low-cost Dependable Systems for Distributed Embedded Applications Nagarajan Kandasamy, 2003

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

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