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Reliability Engineering K.K. Aggarwal 1993-10-31 Modern society depends heavily upon a host of systems of varying complexity to perform the services required. The importance of reliability assumes new dimensions, primarily because of the higher cost of these highly complex machines required by mankind and the implication of their failure. This is why all industrial organizations wish to equip their scientists, engineers, managers and administrators with a knowledge of reliability concepts and applications. Based on the author's 20 years experience as reliability educator, researcher and consultant, Reliability Engineering introduces the reader systematically to reliability evaluation, prediction, allocation and optimization. It also covers further topics, such as maintainability and availability, software reliability, economics of reliability, reliability management, reliability testing, etc. A reliability study of some typical systems has been included to introduce the reader to the practical aspects. The book is intended for graduate students of engineering schools and also professional engineers, managers and reliability administrators as it has a wide coverage of reliability concepts.

Proceedings of the ... Iranian Conference on Electrical Engineering

Software Engineering Environments Fred Long 1991

Cybernetics Abstracts 1977

Multimedia John Alexander Waterworth 1991

Current Trends in Reliability, Availability, Maintainability and Safety Uday Kumar 2015-12-14

Containing selected papers from the ICRESH-ARMS 2015 conference in Lulea, Sweden, collected by editors with years of experiences in Reliability and maintenance modeling, risk assessment, and asset management, this work maximizes reader insights into the current trends in Reliability, Availability, Maintainability and Safety (RAMS) and Risk Management. Featuring a comprehensive analysis of the significance of the role of RAMS and Risk Management in the decision making process during the various phases of design, operation, maintenance, asset management and productivity in Industrial domains, these proceedings discuss key issues and challenges in the operation, maintenance and risk management of complex engineering systems and will serve as a valuable resource for those in the field.

The Rajshahi University Studies 1992

Advances in Manufacturing Technology Rupinder Singh 2022-03-11 This cross-disciplinary book transcends departmental, institutional, industrial, public, and research organizations and goes beyond global barriers to cover the integration of research, education, and manufacturing in advanced materials processing and characterization, including CAD-CAM, Finite Element Analysis (FEA), and smart manufacturing. Advances in Manufacturing Technology: Computational Materials Processing and Characterization focuses on the design of experiment-based computational models, which involves FEA along with an ergonomics-based design of tooling for both conventional and nonconventional manufacturing processes. It discusses research, work, and recent developments in the field of production manufacturing of any mechanical system. Case studies and solved numerical solutions are included at the end of each chapter for easy reading comprehension. The book is helpful to those working on new developments in the field of product manufacturing. It also acts as a first-hand source of information for academic scholars and commercial manufacturers as they make strategic manufacturing development plans.

Expert-C-Programmierung Peter Van der Linden 1995

Expert Systems for Management and Engineering E. Balagurusamy 1990

... Annual Report India. Union Public Service Commission 2010

Bangladesh Journal of Scientific and Industrial Research 1994

Bulletin of the Allahabad Mathematical Society 1986

Reliability Analysis and Prediction K.B. Misra 2012-12-02 This book equips the reader with a compact information source on all the most recent methodological tools available in the area of reliability prediction and analysis. Topics covered include reliability mathematics, organisation and analysis of data, reliability modelling and system reliability evaluation techniques. Environmental factors and stresses are taken into account in computing the reliability of the involved components. The limitations of models, methods, procedures, algorithms and programmes are outlined. The treatment of maintained systems is designed to aid the worker in analysing systems with more realistic and practical assumptions. Fault tree analysis is also extensively discussed, incorporating recent developments. Examples and illustrations support the reader in the solving of problems in his own area of research.

The chapters provide a logical and graded presentation of the subject matter bearing in mind the difficulties of a beginner, whilst bridging the information gap for the more experienced reader. The work will be of considerable interest to engineers working in various industries, research organizations, particularly in defence, nuclear, chemical, space or communications. It will also be an indispensable study aid for serious-minded students and teachers.

Handbook of Performability Engineering Krishna B. Misra 2008-08-24 Dependability and cost effectiveness are primarily seen as instruments for conducting international trade in the free market environment. These factors cannot be considered in isolation of each other. This handbook considers all aspects of performability engineering. The book provides a holistic view of the entire life cycle of activities of the product, along with the associated cost of environmental preservation at each stage, while maximizing the performance.

New Trends in System Reliability Evaluation K.B. Misra 2012-12-02 The subject of system reliability evaluation has never been so extensively and incisively discussed as in the present volume. The book fills a gap in the existing literature on the subject by highlighting the shortcomings of the current state-of-the-art and focusing on on-going efforts aimed at seeking better models, improved solutions and alternative approaches to the problem of system reliability evaluation. The book's foremost objective is to provide an insight into developments that are likely to revolutionize the art and science in the near future. At the same time it will help serve as a benchmark for the reader not only to understand and appreciate the newer developments but to profitably guide him in reorienting his efforts. This book will be valuable for people working in various industries, research organizations, particularly in electrical and electronics, defence, nuclear, chemical, space and communication systems. It will also be useful for serious-minded students, teachers, and for the laboratories of educational institutions.

Indian Books 1984

Praktische C++-Programmierung Steve Oualline 2004

Angewandte abstrakte Algebra Rudolf Lidl 1982

Acta Ciencia Indica 2001

Engineering Reliability and Risk Assessment Harish Garg 2022-09-23 Engineering Reliability and Risk Assessment explains how to improve the performance of a system using the latest risk and reliability models. Against a backdrop of increasing availability of industrial data, and ever-increasing global commercial competition, the standards for optimal efficiency with minimum hazards keep improving. Topics explained include Effective strategies for the maintenance of the mechanical components of a system, How to schedule necessary interventions throughout the product life cycle, How to understand the structure and cost of complex systems, Planning a schedule to improve the reliability and life of the system, software, system safety and risk informed asset management, and more. Uses case studies from industry practice to explain innovative solutions to real world risk assessment problems Addresses the full interdisciplinary range of topics that influence this complex field Provides brief introductions to important concepts, including risk and reliability analysis and fuzzy reliability

Journal of the Institution of Engineers (India). 2002

International Books in Print 1997

Biogas Production Nagamani Balagurusamy 2021-01-11 This book focuses on biogas production by anaerobic digestion, which is the most popular bioenergy technology of today. Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste. The energy contained in the substrate is released in the form of biogas, which can be employed as a renewable fuel in diverse industrial sectors. Although biogas generation is considered an established process, it continues to evolve, e.g. by incorporating modifications and improvements to increase its efficiency and its downstream applications. The chapters of this book review the progress made related to feedstock, system configuration and operational conditions. It also addresses microbial pathways utilized, as well as storage, transportation and usage of biogas. This book is an up-to-date resource for scientists and students working on improving biogas production.

IT-Service-Management in der Praxis mit ITIL® Martin Beims 2020-12-07 - Was Sie für die Foundation-Zertifizierung über ITIL® wissen müssen - Ein Überblick über ITIL® sowie ergänzende Standards und Methoden - Neu: mit ITIL® 4 und COBIT® 2019 - Wie Sie IT-Service-Management erfolgreich gestalten und verankern - Zahlreiche Praxistipps und eine umfangreiche Fallstudie Die IT hat sich zu einem zentralen Erfolgsfaktor für funktionierende Geschäftsprozesse entwickelt. Das verlangt von IT-Organisationen, immer schneller veränderten Anforderungen gerecht zu werden. Als IT-Verantwortlicher können Sie diese Aufgabe meistern, wenn Sie auf modernes IT-Service-Management setzen. Hier wird Ihnen gezeigt, wie Sie IT-Service-Management praxisgerecht planen und realisieren. Sie erfahren, wie Sie ITIL® Ihren Zielen entsprechend mit ISO 20000, IT-Kennzahlen, Balanced Scorecard und COBIT® 2019 richtig kombinieren und einsetzen. Als standardisierte Notation für Prozesse wird BPMN 2.0 beleuchtet. Ein ausführliches Fallbeispiel veranschaulicht, wie Sie das alles in die Praxis umsetzen und auf diese Weise kontinuierlich die Qualität und die Wirtschaftlichkeit verbessern. »Das ist ein Buch sowohl für die Praxis (ITIL Projekte stehen bevor) als auch für Schulungs-Teilnehmer, die sich auf eine ITIL Foundation Prüfung vorbereiten wollen. Das Buch zeigt, wie IT-Service Management mit ITIL® in der Praxis geplant und realisiert werden kann.« it Service Management (itSMF Deutschland e.V.) 2014 zur 3. Auflage. AUS DEM INHALT // IT-Service-Management/Serviceprinzipien/ITIL® 3/ITIL® 4/COBIT® 2019/ISO 20000/BPMN 2.0/Leistung und Qualität messen/Praxisbeispiel

Systems Science 1986

An Introduction to Reliability and Maintainability Engineering Charles E. Ebeling 2004

Reliability, Stress Analysis, and Failure Prevention Issues in Emerging Technologies and Materials American Society of Mechanical Engineers. Design Engineering Division 1995 Discusses the use of finite element analysis and other analytic techniques to deal with the complex states of stress that effect such advanced materials as polymers, composites, adhesives, and piezoelectric materials, especially when they are applied in such critical areas as aerospace and aeronauti

Applied Statistical Methods David D. Hanagal 2022 This book collects select contributions presented at the International Conference on Importance of Statistics in Global Emerging (ISGES 2020) held at the Department of Mathematics and Statistics, University of Pune, Maharashtra, India, from 2-4 January 2020. It discusses recent developments in several areas of statistics with applications of a wide range of key topics, including small area estimation techniques, Bayesian models for small areas, ranked set sampling, fuzzy supply chain, probabilistic supply chain models, dynamic Gaussian process models, grey relational analysis and multi-item inventory models, and more. The possible use of other models, including generalized Lindley shared frailty models, Benktander Gibrat risk model, decision-consistent randomization method for SMART designs and different reliability models are also discussed. This book includes detailed worked examples and case studies that illustrate the applications of recently developed statistical methods, making it a valuable resource for applied statisticians, students, research project leaders and practitioners from various marginal disciplines and interdisciplinary research. .

Systems Performance Modeling Adarsh Anand 2020-11-23 This book describes methods to improve software performance and safety using advanced mathematical and computational analytics. The main focus is laid on the increase of software reliability by preventive and predictive maintenance with efficient usage of modern testing resources. The editors collect contributions from international researchers in the field.

ISOM 2013 Proceedings (GIAP Journals, India) Global Institutes Amritsar and University of Mauritius
Methodisches Testen von Programmen Glenford J. Myers 2001-01 Der Klassiker zum Thema Software-Test, bereits in der 7. Auflage! Dieses Buch hilft Ihnen, Kosten zu senken: durch eine praxisbezogene Anleitung zum Testen von Programmen. Es ist ein Handbuch zur Optimierung des methodischen Testens in der Praxis. Darüber hinaus werden auch ökonomische und psychologische Aspekte von Programmtests betrachtet, ebenso Marketinginformationen, Testwerkzeuge, High-Order-Testing, Fehlerbehebung und Codeinspektionen.

International Conference on Power Control and Optimization Nader Barsoum 2008-10-16 All papers have been peer-reviewed. The platform is the aim of this conference for all researchers, engineers, practitioners, academicians, students and industrial professionals sharing to present their research results and development activities in the area of power control and its optimization techniques. We trust that the theme of the conference "Innovation in power and control for optimal industry" provides emulation between the researchers in their practical results as it relates to the industrial need. This platform brings together researchers working on the development of techniques and methodologies to improve the performance of power system and control systems for optimal industry, as well as the computational intelligent, evolutionary algorithms, and hybrid system optimization.

Program Debugging Environments Beatrice Lazzarini 1992

Mathematical Modelling of System Resilience Kanchan Das 2022-09-01 Almost all the systems in our world, including technical, social, economic, and environmental systems, are becoming interconnected and increasingly complex, and as such they are vulnerable to various risks. Due to this trend, resilience creation is becoming more important to system managers and decision makers, this to ensure sustained performance. In order to be able to ensure an acceptable sustained performance under such interconnectedness and complexity, resilience creation with a system approach is a requirement.

Mathematical modeling based approaches are the most common approach for system resilience creation. Mathematical Modelling of System Resilience covers resilience creation for various system aspects including a functional system of the supply chain, overall supply chain systems; various methodologies for modeling system resilience; satellite-based approach for addressing climate related risks, repair-based approach for sustainable performance of an engineering system, and modeling measures of the reliability for a vertical take-off and landing system. Each of the chapters contributes state of the art research for the relevant resilience related topic covered in the chapter. Technical topics covered in the book include: 1. Supply chain risk, vulnerability and disruptions 2. System resilience for containing failures and disruptions 3. Resiliency considering frequency and intensities of disasters 4. Resilience performance index 5. Resiliency of electric Traction system 6. Degree of resilience 7. Satellite observation and hydrological risk 8. Latitude of Resilience 9. On-line repair for resilience 10. Reliability design for Vertical Takeoff and landing Prototype

Software testen und analysieren Mauro Pezzè 2009-01-01 *Software Testen und Analysieren: Prozesse, Prinzipien und Techniken* ist das erste Buch, das eine grosse Bandbreite sich ergänzender Software-Test und -Analysetechniken in einer ganzheitlichen, schlussigen Form erklärt. Es behandelt das ganze Themenspektrum, angefangen bei den Grundlagen und Basistheorien bis hin zu Organisations- und Prozessfragen von Anwendersoftware. Der Schwerpunkt des Buches liegt darin, anwendungsorientierte Techniken auszuwählen, um beim Testen und Analysieren von Software eine akzeptable Qualität zu akzeptablen Preisen zu bekommen."

Reliability Engineering E. Balagurusamy 1984

Advances in Food Bioproducts and Bioprocessing Technologies Monica Lizeth Chavez-Gonzalez 2019-10-16 The book explores and exploits the synergy and boundary between biotechnology, bioprocessing and food engineering. Divided into three parts, *Advances in Food Bioproducts and Bioprocessing Technologies* includes contributions that deal with new developments in procedures, bioproducts, and bioprocesses that can be given quantitative expression. Its 40 chapters will describe how research results can be used in

engineering design, include procedures to produce food additives and ingredients, and discuss accounts of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies.

Text of "A" Papers from the Summer Meeting, IEEE Power Engineering Society, Portland, Oregon, July 18-23, 1976 IEEE Power Engineering Society 1976

Bibliography of Doctoral Dissertations 1979

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