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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.

Total Quality Management (TQM) 5e by Pearson - Dale H. Besterfield
Over the years, total quality management has become very important for improving a firm's processing capabilities to sustain competitive advantages. And in the last few years, the world has gone through many major changes in terms of information technology, quality system standards, customer satisfaction levels, economic changes, approaches of the government and political alignments on the national and international level. Keeping these developments in mind, Total Quality Management, 5e has been revised to focus on encouraging a continuous flow of incremental improvements from the bottom of the organization's hierarchy.

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.

Practical Electronic Reliability Engineering - Jerome Klion 2012-12-06
This book is intended for the engineer or engineering student with little or no prior background in reliability. Its purpose is to provide the background material and guidance necessary to comprehend and carry out all the tasks associated with a reliability program from specification generation to final demonstration of reliability achieved. Most available texts on reliability concentrate on the mathematics and statistics used for reliability analysis, evaluation, and demonstration. They are more often suited more for the professional with a heavier mathematical background that most engineers have, and more often than not, ignore or pay short-shrift to basic engineering design and organizational efforts associated with a reliability program. A reliability engineer must be familiar with both the mathematics and engineering aspects of a reliability program. This text: 1. Describes the mathematics needed for reliability analysis, evaluation, and demonstration commensurate with an engineer's background. 2. Provides background material, guidance, and references necessary to the structure and implementation of a reliability program including: • identification of the reliability standards in most common use • how to generate and respond to a reliability specification • how reliability can be increased • the tasks which make up a reliability program and how to judge the need and scope of each; how each is commonly performed; caution and comments about their application.

Reliability in Automotive and Mechanical Engineering - Bernd Bertsche 2008-04-30

Defects generate a great economic problem for suppliers who are faced with increased duties. Customers expect increased efficiency and dependability of technical product of - also growing - complexity. The

authors give an introduction to a theory of dependability for engineers. The book may serve as a reference book as well, enhancing the knowledge of the specialists and giving a lot of theoretical background and information, especially on the dependability analysis of whole systems.

Case Studies in Reliability and Maintenance - Wallace R. Blischke 2003-03-27

Introducing a groundbreaking companion book to a bestselling reliability text Reliability is one of the most important characteristics defining the quality of a product or system, both for the manufacturer and the purchaser. One achieves high reliability through careful monitoring of design, materials and other input, production, quality assurance efforts, ongoing maintenance, and a variety of related decisions and activities. All of these factors must be considered in determining the costs of production, purchase, and ownership of a product. Case Studies in Reliability and Maintenance serves as a valuable addition to the current literature on the subject of reliability by bridging the gap between theory and application. Conceived during the preparation of the editors' earlier work, Reliability: Modeling, Prediction, and Optimization (Wiley, 2000), this new volume features twenty-six actual case studies written by top experts in their fields, each illustrating exactly how reliability models are applied. A valuable companion book to Reliability: Modeling, Prediction, and Optimization, or any other textbook on the subject, the book features: Case studies from fields such as aerospace, automotive, mining, electronics, power plants, dikes, computer software, weapons, photocopiers, industrial furnaces, granite building cladding, chemistry, and aircraft engines A logical organization according to the life cycle of a product or system A unified format of discussion enhanced by tools, techniques, and models for drawing one's own conclusions Pertinent exercises for reinforcement of ideas Of equal value to both students of reliability theory as well as professionals in industry, Case Studies in Reliability and Maintenance should be required reading for anyone seeking to understand how reliability and maintenance issues can be addressed and resolved in the real world.

Reliability, Maintenance and Safety Engineering - A. K. Gupta 2009

An Introduction to Object-Oriented Programming with Java 1.5 Update with OLC Bi-Card - C. Thomas Wu 2004

An Introduction to Object-Oriented Programming with Java provides an accessible and thorough introduction to the basics of programming in java. This much-anticipated revision continues its emphasis on object-oriented programming. Objects are used early so students begin thinking in an object-oriented way, then later Wu teaches students to define their own classes. In the third edition, the author has eliminated the author-written classes, so students get accustomed to using the standard java libraries. In the new update, the author has included the Scanner Class for input, a new feature of Java 1.5. Also new is the use of smaller complete code examples to enhance student learning. The larger sample development programs are continued in this edition, giving students an opportunity to walk incrementally through program design, learning the fundamentals of software engineering. The number and variety of examples makes this a student-friendly text that teaches by showing. Object diagrams continue to be an important element of Wu's approach. The consistent, visual approach assists students in understanding concepts.

Obj Oriented Prog With C++, 5e - Balagurusamy 2011

Operations Research - P. Ramamurthy 2007

Reliability Engineering - Balagurusamy 1984

Root Cause Analysis, Second Edition - Bjørn Andersen 2006-01-01

This updated and expanded edition discusses many different tools for root cause analysis and presents them in an easy-to-follow structure: a general description of the tool, its purpose and typical applications, the procedure when using it, an example of its use, a checklist to help you make sure it is applied properly, and different forms and templates (that can also be found on an accompanying CD-ROM). The examples used are general enough to apply to any industry or market. The layout of the book has been designed to help speed your learning. Throughout, the authors have split the pages into two halves: the top half presents key concepts using brief language [almost keywords] and the bottom half uses examples to help explain those concepts. A roadmap in the margin of every page simplifies navigating the book and searching for specific topics. The book is suited for employees and managers at any organizational level in any type of industry, including service, manufacturing, and the public sector.

BASIC ELECTRONICS - SANTIRAM KAL 2009-01-14

This comprehensive and well-organized text discusses the fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of electronics - both analog and digital - encompassing devices such as microprocessors, microcontrollers, fibre optics, and photonics. In so doing, he has struck a fine balance between analog and digital electronics. A distinguishing feature of the book is that it gives case studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication. Worked-out examples, interspersed throughout the text, and the large number of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and interesting.

Schaum's Outline of Theory and Problems of Programming with C - Byron S. Gottfried 1996

The broad, yet in-depth coverage of C programming language, within the context of today's C programming style, makes this book as useful for practicing professionals as it is for beginning programmers. This study guide solves many sample problems using other programming languages so readers can compare several popular languages. It also includes clear explanations of most of the features in the current ANSI standard. The emphasis throughout is on designing clear, legible, modular and efficient programs.

Reliability and Life Testing Handbook - Dimitri Kececioglu 2002

A guide and reference to product reliability testing, this volume covers various steps from planning and test selection to test procedure and results analysis. It delivers information on a variety of distributions, including the Chi-Square, Exponential, Normal, Lognormal, Weibull, Gamma, and others.

Practical Moviemaking - Joe Wallenstein 2012-11-05

Every year, hundreds of American film schools graduate thousands of aspiring filmmakers. Very few of them, however, leave school prepared for the challenges that await or are fortunate enough to secure the financial backing of a major studio. This practical guide provides all necessary information for newcomers to the profession to get a movie made, information often left out of film school curricula. Topics include finding a project, breaking down a script, creating a production board, casting, budgeting, scouting locations, scheduling, dealing with actors, establishing set protocol, marketing, and many others. Throughout, real-life examples vividly illustrate the subject at hand. Bridging the gap between learning the craft of moviemaking and exercising that craft in the entertainment world, this manual is essential for all who seek a career in film. Instructors considering this book for use in a course may request an examination copy here.

Reliability Engineering Handbook - Dodson/Nolan 1999-10-27

Providing a comprehensive approach to both the art and science of reliability engineering, this volume covers all aspects of the field, from basic concepts to accelerated testing, including SPC, designed experiments, human factors, and reliability management. It also presents the theory of reliability systems and its application as prescribed by industrial and government standards.

Reliability Engineering Handbook - Dimitri Kececioglu 2002

Designed to be used in engineering education and industrial practice, this book provides a comprehensive presentation of reliability engineering for optimized design engineering of products, parts,

components and equipment.

A Textbook of Reliability and Maintenance Engineering - Alakesh Manna 2011-09

This text book on Reliability and Maintenance Engineering has been prepared considering the syllabuses of all technical universities for their BE and ME courses. This book also fulfill the requirement of the University and College Teachers; Engineers, Technical Supervisors and Staff who are directly engaged in the industry. This book covers: Traditional and modern concept, importance, function of Maintenance Engineering, Organizational Setup and Record Keeping in maintenance, Corrosions, Safety in Maintenance, Various hazards and Fault Tree Analysis, House Keeping Practice in Maintenance, Incentive Payments for Maintenance Workers, Reliability and Availability of Engineering Systems, Computerized Maintenance Information Systems, Total Productive Maintenance, Maintenance Aspect: Lubrications, Inspection and Testing in Maintenance Engineering, Assets Management; Lean Maintenance and Application of Different Techniques in Maintenance, Manpower Planning and Training, Fault Diagnosis and Condition Monitoring, Spare Parts Management and Quality Control in Maintenance, Budgets and Cost Aspect of Maintenance, Maintenance Effectiveness; Performance Evolution and Audit, Maintenance of Mechanical, Electrical, Process and Service Equipments, Machine Failure; Development of Preventive Maintenance Schedule; Breakdown Time Distribution and Trouble Shooting. With all these above mentioned features the author is quite confident with feeling that the book will fulfill the demands and needs of maintenance engineers and students.

Optical Fiber Communications - John M. Senior 2009

This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the design and utilisation of optical fiber systems. This edition retains all core features, while incorporating recent improvements and developments in the field.

Mathematical Theory of Reliability - Richard E. Barlow 1996-01-01

This monograph presents a survey of mathematical models useful in solving reliability problems. It includes a detailed discussion of life distributions corresponding to wearout and their use in determining maintenance policies, and covers important topics such as the theory of increasing (decreasing) failure rate distributions, optimum maintenance policies, and the theory of coherent systems. The emphasis throughout the book is on making minimal assumptions - and only those based on plausible physical considerations - so that the resulting mathematical deductions may be safely made about a large variety of commonly occurring reliability situations. The first part of the book is concerned with component reliability, while the second part covers system reliability, including problems that are as important today as they were in the 1960s. The enduring relevance of the subject of reliability and the continuing demand for a graduate-level book on this topic are the driving forces behind its re-publication.

Introduction to Computing & Problem Solving With PYTHON -

Jeeva Jose 2016-08-01

This book 'Introduction to Computing and Problem Solving with Python' will help every student, teacher and researcher to understand the computing basics and advanced Python Programming language. The Python programming topics include the reserved keywords, identifiers, variables, operators, data types and their operations, flow control techniques which include decision making and looping, modules, files and exception handling techniques. Advanced topics like Python regular expressions, Database Programming and Object Oriented Programming concepts are also covered in detail. All chapters have worked out programs, illustrations, review and frequently asked interview questions. The simple style of presentation makes this a friend for self-learners. More than 300 solved lab exercises available in this book is tested in Python 3.4.3 version for Windows. The book covers syllabus for more than 35 International Universities and 45 Indian universities like Dr. APJ Abdul Kalam Technological University, Christ University, Savitribai Phule Pune University, University of Delhi, University of Calicut, Mahatma Gandhi University, University of Mumbai, AICTE, CBSE, MIT, University of Virginia, University of Chicago, University of Toronto, Technical University of Denmark etc.

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

The Art of Software Testing - Glenford J. Myers 2004-07-22

This long-awaited revision of a bestseller provides a practical discussion of the nature and aims of software testing. You'll find the latest

methodologies for the design of effective test cases, including information on psychological and economic principles, managerial aspects, test tools, high-order testing, code inspections, and debugging. Accessible, comprehensive, and always practical, this edition provides the key information you need to test successfully, whether a novice or a working programmer. Buy your copy today and end up with fewer bugs tomorrow.

Computer Applications in Food Technology - R. Paul Singh
1996-08-12

The Institute of Food Technologists (IFT) recently endorsed the use of computers in food science education. The minimum standards for degrees in food science, as suggested by IFT, "require the students to use computers in the solution of problems, the collection and analysis of data, the control processes, in addition to word processing." Because they are widely used in business, allow statistical and graphical of experimental data, and can mimic laboratory experimentation, spreadsheets provide an ideal tool for learning the important features of computers and programming. In addition, they are ideally suited for food science students, who usually do not have an extensive mathematical background. Drawing from the many courses he has taught at UC Davis, Dr. Singh covers the general basics of spreadsheets using examples specific to food science. He includes more than 50 solved problems drawn from key areas of food science, namely food microbiology, food chemistry, sensory evaluation, statistical quality control, and food engineering. Each problem is presented with the required equations and detailed steps necessary for programming the spreadsheet. Helpful hints in using the spreadsheets are also provided throughout the text. Key Features * The first book to integrate spreadsheets in teaching food science and technology * Includes more than 50 solved examples of spreadsheet use in food science and engineering * Presents a step-by-step introduction to spreadsheet use * Provides a food composition database on a computer disk

Numerical Methods - Rao V. Dukkipati 2010

Design Reliability - B.S. Dhillon 1999-06-18

As engineering systems become more and more complex, industry has recognized the importance of system and product reliability and places ever increasing emphasis on it during the design phase. Despite its efforts, however, industry continues to lose billions of dollars each year because of unexpected system failures. Therefore, it becomes increasingly important for designers and engineers to have a solid grounding in reliability engineering and keep abreast of new developments and research results.

Advanced Microprocessors and Peripherals - Kishor M. Bhurchandi
2013

Programming in ANSI C - E. Balagurusamy 2017

Numerical Methods - Balagurusamy 1999-07

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.

Reliability and Quality Control - Asit P. Basu 1986

Life Cycle Reliability Engineering - Guang Yang 2007-02-02

As the Lead Reliability Engineer for Ford Motor Company, Guangbin Yang is involved with all aspects of the design and production of complex automotive systems. Focusing on real-world problems and solutions, Life Cycle Reliability Engineering covers the gamut of the techniques used for reliability assurance throughout a product's life cycle. Yang pulls real-world examples from his work and other industries to explain the methods of robust design (designing reliability into a product or system ahead of time), statistical and real product testing, software testing, and ultimately verification and warranting of the final product's reliability
RELIABILITY ENGINEERING AND LIFE TESTING - V. N. A NAIKAN
2008-12-12

This compact and easy-to-understand text presents the underlying principles and practice of reliability engineering and life testing. It describes the various techniques available for reliability analysis and prediction and explains the statistical methods necessary for reliability modelling, analysis and estimation. The text also discusses in detail the concepts of life testing, its classification and methodologies as well as accelerated life tests, the methodologies and models of stress related failure rates evaluation, and data analysis. Besides, it elaborates on the principles, methods and equipment of highly accelerated life testing and highly accelerated stress screening. Finally, the book concludes with a discussion on the parametric as well as non-parametric methods generally used for reliability estimation, and the recent developments in life testing of engineering components. Key Features The book is up-to-date and very much relevant to the present industrial, research, design, and development scenarios. Provides adequate tools to predict the system reliability at the design stage, to plan and conduct life testing on the products at various stages of development, and to use the life test and field data to estimate the product reliability. Gives sufficiently large number of worked-out examples. Primarily intended as a textbook for the postgraduate students of engineering (M.Tech., Reliability Engineering), the book would also be quite useful for reliability practitioners, professional engineers, and researchers.

Thinking in Java - Bruce Eckel 2003

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

Programming in Basic - E. Balagurusamy 1984

Reliability Engineering - K.K. Aggarwal 2012-12-06

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.

Programming with C. - Byron s Gottfried 2010

Programming with JAVA - A Primer - E. Balaguruswamy 2014-06-04

Programming with JAVA, 3e, incorporates all the updates and enhancements added to JAVA 2 and J2SE 5.0 releases. The book presents the language concepts in extremely simple and easy-to-understand style with illustrations and examples wherever necessary. Salient Features Fully explains the entire Java language. Discusses Java's unique features such as packages and interfaces. Shows how to create and implement applets. Illustrates the use of advanced concepts like multithread and graphics. Covers exception handling in depth. Debugging exercises and two full-fledged projects. Includes model questions from the Sun Certified JAVA Programmer Exam.

Data Structures Using C - E. Balagurusamy 2013