Software Reliability Engineering John D Musa

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musa is considered the guru of software reliabilityengineering michael r lyn ph d technical staff at tlaboratories the hands on guide to sre spotlighting the practicalsteps that you need to apply software reliability engineering tosoftware development and testing this first of its kind guide putsthe efficiency enhancing benefits of sre within easy reach organizedfor quick learning and rapid application this book leads you throughthe entire sre process with the fone follower case study adapted froma bell laboratories product to enhance understanding each chapterfeatures answered faqs as well as hands on exercises for instantapplication the book boils down the core practice of sre to a one or two day learning process even newcomers to software reliabilityengineering can quickly discover how to set quantitative reliabilitygoals develop operational profiles use casre to estimate softwarereliability determine operational modes also helpful to systemsengineer s systems architects developers and managers this uniqueand valuable tool shows you step by step how to deliver the highlyefficient engineered software development and testing proceduresneeded in today s fast moving marketplace

a newly revised and updated edition that details both the theoretical foundations and practical applications of reliability engineering reliability is one of the most important quality characteristics of components products and large and complex systems but it takes a significant amount of time and resources to bring reliability to fruition thoroughly classroom and industry tested this book helps ensure that engineers see reliability success with every product they design test and manufacture divided into three parts reliability engineering second edition handily describes the theories and their practical uses while presenting readers with real world examples and problems to solve part i focuses on system reliability estimation for time independent and failure dependent models helping engineers create a reliable design part ii aids the reader in assembling necessary components and configuring them to achieve desired reliability objectives conducting reliability tests on components and using field data from similar components part iii follows what happens once a product is produced and sold how the manufacturer must ensure its reliability objectives by providing preventive and scheduled maintenance and warranty policies this second edition includes in depth and enhanced chapter coverage of reliability and hazard functions system reliability evaluation time and failure dependent reliability estimation methods of the parameters of failure time distributions parametric reliability models models for accelerated life testing renewal processes and expected number of failures preventive maintenance and inspection warranty models case studies a comprehensive reference for practitioners and professionals in quality and reliability engineering reliability engineering can also be used for senior undergraduate or graduate courses in industrial and systems mechanical and electrical engineering programs

the aim of this book is to remove the mystique surrounding reliability engineering techniques it provides practical guidance to the practising engineer who may have a general knowledge of the concepts of reliability but who lacks a sufficiently precise understanding of the language of reliability engineering to be able to make effective use of the techniques available

reliability maintainability and risk has been updated to ensure that it remains the leading reliability textbook and cementing the book s reputation for staying one step ahead of the competition this 6th edition incorporates brand new material on the accuracy of reliability prediction and common cause failure based on the author s phd research work david j smith approaches these subjects from an entirely original and unique viewpoint emphasising that the need to demonstrate that safety related systems have been assessed against target integrity levels is now commonplace in most industries and the material contained in this book will address these growing needs reliability maintainability and risk has now been established for over 20 years it deals with all aspects of reliability maintainability and safety related failures in a simple and straightforward style explaining technical terms and jargon and handling the imitations of reliability parameters it pre supposes no prior knowledge of the subject the author deals with numerical data making realistic predictions using the minimum of mathematics david j smith has written seven successful works on reliability quality maintainability software and statistics and is past chairman of the safety and reliability society he has been directly concerned with this branch of engineering in the telecommunications electronics and oil and gas industries for over 25 years he is well known for his

many courses and workshops on reliability engineering and software quality and is in a unique position to provide much needed information on a burgeoning subject area readers will be getting brand new and original information that they cannot get from any other title on the subject of reliability maintainability and risk author is well known and has an excellent track record in this area he is regarded as highly readable and his writing concise and straightforward

every customer wants high reliability from a simple bicycle brake cable to a complex lunar vehicle reliability is a key ingredient of each and every product understand and master the process to set and reach reliability goals

suitable for students of all engineering disciplines and professional engineers alike this interdisciplinary and user friendly text will enable the reader to apply the principles of quality and reliability to manufacturing processes and engineering systems

the book develops the root cause approach to reliability often referred to as physics of failure in the reliability engineering field it approaches the subject from the point of view of a process and integrates the necessary methods to support that process the book can be used to teach first or second year postgraduate students in mechanical electrical manufacturing and materials engineering about addressing issues of reliability during product development it will also serve practicing engineers involved in the design and development of electrical and mechanical components and systems as a reference

software reliability engineering is the classic guide to this time saving practice for the software professional acm software engineering notes praised it as an introductory book a reference and an application book all compressed in a single volume the author s experience in reliability engineering is apparent and his expertise is infused in the text ieee computer noted toward software you can depend on this book illustrates the entire sre process an aid to systems engineers systems architects developers and managers this second edition is thoroughly rewritten for the latest sre practice enlarged 50 and polished by thousands of practitioners added workshops help you apply what you learn to your project frequently asked questions were doubled to more than 700 the step by step process summary software user manual list of articles of sre user experience glossary background sections and exercises are all updated enhanced and exhaustively indexed to see the table of contents and other details click on members aol com johndmusa book htm

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testing is usually the most expensive time consuming and difficult activity during the development of engineering products and systems development testing must be performed to ensure that designs meet requirements for performance safety durability reliability statutory aspects etc most manufactured items must be tested to ensure that they are correctly made however much of the testing that is performed in industry is based upon traditions standards and procedures that do not provide the optimum balance of assurance versus cost and time there is often pressure to reduce testing because of the high costs involved without appreciation of the effects on performance reliability etc misperceptions are commonplace particularly the idea that tests should not stress products in excess of their

operating levels the main reason for this situation seems to be that engineers have not developed a consistent philosophy and methodology for testing testing is seldom taught as part of engineering curricula and there are no books on the subject specialist areas are taught for example fatigue testing to mechanical engineers and digital device testing to electronics engineers however a wide range is untaught particularly multidisciplinary and systems aspects testing is not just an engineering issue because of the importance and magnitude of the economic and business aspects testing is an issue for management testing is perceived as a high cost activity when it should be considered as a value adding process the objective of this book is therefore to propose a philosophy of engineering test and to describe the necessary technologies and methods that will provide a foundation for all plans methods and decisions related to testing of engineered products and systems the book will help those who must manage and conduct this most difficult and uncertain task it will also provide a text which can be used as the basis for teaching the principles of testing to all engineering students

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 francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including citation tracking and alerts active reference linking saved searches and marked lists html and pdf format options contact taylor and francis for more information or to inquire about subscription options and print online combination packages us tel 1 888 318 2367 e mail e reference taylorandfrancis com international tel 44 0 20 7017 6062 e mail online sales tandf co uk

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