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many books on reliability focus on either modeling or statistical analysis and require an extensive background in probability and statistics continuing its tradition of excellence as an introductory text for those with limited formal education in the subject this classroom tested book introduces the necessary concepts in probability and statistics within the context of their application to reliability the third edition adds brief discussions of the anderson darling test the cox proportionate hazards model the accelerated failure time model and monte carlo simulation over 80 new end of chapter exercises have been added as well as solutions to all odd numbered exercises moreover excel workbooks available for download save students from performing numerous tedious calculations and allow them to focus on reliability concepts ebeling has created an exceptional text that enables readers to learn how to analyze failure repair data and derive appropriate models for reliability and maintainability as well as apply those models to all levels of design

this book provides the guidelines and fundamental methods of estimation and calculation needed by maintainability engineers it also covers the management of maintainability efforts including issues of organizational structure cost and planning processes questions and problems conclude each chapter

to meet the needs of today engineered products and systems are an important element of the world economy and each

year billions of dollars are spent to develop manufacture operate and maintain various types of products and systems around the globe this book integrates and combines three of those topics to meet today s needs for the engineers working in these fields this book provides a single volume that considers reliability maintainability and safety when designing new products and systems examples along with their solutions are placed at the end of each chapter to test readers comprehension the book is written in a manner that readers do not need any previous knowledge of the subject and many references are provided this book is also useful to many people including design engineers system engineers reliability specialists safety professionals maintainability engineers engineering administrators graduate and senior undergraduate students researchers and instructors

the demands of the global economy require manufacturers to produce highly reliable and easily maintainable engineering products recent studies indicate that for many large and sophisticated products or systems maintenance and support account for as much as 60 to 75 percent of their life cycle costs therefore the role of maintainability maintenance and reliability has become increasingly significant satisfying the pressing need for a volume that addresses these subjects with an interdisciplinary approach maintainability maintenance and reliability for engineers distills knowledge specific to each discipline into one comprehensive resource after reviewing the history of all three fields and their interrelationships the book covers mathematical concepts such as boolean algebra laws probability properties mathematical definitions and probability distributions it includes reliability evaluation methods such as fault tree analysis network reduction method delta method markov method supplementary variables method and reliability management both mechanical and human highlighting maintainability tools and functions the author discusses topics in maintainability management and costing including tasks during product life cycle program plan organization functions design reviews life cycle costing investment cost elements and life cycle cost estimation models the author also includes coverage of maintenance engineering focusing on safety quality corrective and preventive maintenance the book concludes with coverage of maintenance management costing and human error in engineering maintenance and contains 60 illustrations 16 tables and more than 200 equations there is a definite need to consider maintainability maintenance and reliability during product system design and other phases to achieve this goal effectively it is absolutely imperative to have a certain degree of understanding of each of these disciplines

how to design for optimum maintenance capabilities and minimize the repair time design for maintainability offers engineers a wide range of tools and techniques for incorporating maintainability into the design process for complex systems with contributions from noted experts on the topic the book explains how to design for optimum maintenance capabilities while simultaneously minimizing the time to repair equipment the book contains a wealth of examples and the most up to date maintainability design practices that have proven to result in better system readiness shorter downtimes and substantial cost savings over the entire system life cycle thereby decreasing the total cost of ownership design for maintainability offers a wealth of design practices not covered in typical engineering books thus allowing readers to think outside the box when developing maintainability design requirements the books principles and practices can help engineers to dramatically improve their ability to compete in global markets and gain widespread customer satisfaction this important book offers a complete overview of maintainability engineering as a system engineering discipline includes contributions from authors who are recognized leaders in the field contains real life design examples both good and bad from various industries presents realistic illustrations of good maintainability design principles provides discussion of the interrelationships between maintainability with other related disciplines explores trending topics in technologies written for design and logistics engineers and managers design for maintainability is a comprehensive resource containing the most reliable and innovative techniques for improving maintainability when designing a system or product

the text provided in the book contains detailed information about reliability and maintenance at one place the knowledge of reliability concept for technical personnel is the requirements today which has been discussed at length with some live problems to evaluate it reliability of mechanical electrical and welded joints has been discussed parameters which affect reliability directly or indirectly have been included importance of computers in reliability and maintenance has also been discussed on the other hand maintenance is the act of optimizing the available resources of manpower materials tools out test equipments etc to keep the organizations in the healthy position at minimum cost to meet out the challenges of the modernized and sophisticated equipments machineries it is desired to keep the system operative for a longer period therefore the need to educate engineering graduates regarding all aspects of maintenance has become essential here attempt has been made to include all aspects of maintenance with the newer ideas of condition based maintenance in 21

chapters of this book attention has been focused to include all important features of reliability and maintenance this book will be useful to practicing engineers as well as to undergraduate students

for over 30 years reliability maintainability and risk has been recognised as a leading text for reliability and maintenance professionals now in its seventh edition the book has been updated to remain the first choice for professional engineers and students the seventh edition incorporates new material on important topics including software failure the latest safety legislation and standards product liability integrity of safety related systems as well as delivering an up to date review of the latest approaches to reliability modelling including cutsec ranking it is also supported by new detailed case studies on reliability and risk in practice the leading reliability reference for over 30 years covers all key aspects of reliability and maintenance management in an accessible way with minimal mathematics ideal for hands on applications four new chapters covering software failure safety legislation safety systems and new case studies on reliability and risk in practice

gets professionals quickly on line with all the crucial design concepts and skills they need to dramatically improve the maintainability of their products or systems maintainability is a practical step by step guide to implementing a comprehensive maintainability program within your organization s design and development function from program scheduling organizational interfacing cost estimating and supplier activities to maintainability prediction task analysis formal design review and maintainability tests and demonstrations it describes all the planning and organizational aspects of maintainability for projects under development and schools readers in state of the art maintainability design techniques demonstrates methods for quantitatively measuring maintainability at every stage of the development process shows how to increase effectiveness while reducing life cycle costs of already existing systems or products features numerous case studies sample applications and practice exercises functions equally well as a professional reference and a classroom text independent cost analysis studies indicate that an inordinately large percentage of the overall life cycle cost of most systems products is currently taken up by maintenance and support in fact for many large scale systems maintenance and support have been shown to account for as much as 60 to 75 of overall life cycle costs at a time of fierce global competition long term cost effectiveness is a major competitive advantage that manufacturers simply cannot afford

to underestimate clearly then to remain competitive in today's international marketplace companies must institute programs for reducing system maintenance and support costs comprehensive programs that are an integral part of the design and development process from its earliest conceptual stages this book shows you how to implement such a program within your organization's design and development function from program scheduling organizational interfacing cost estimating and supplier activities to maintainability prediction task analysis formal design review and maintainability tests and demonstrations it describes all the planning and organizational aspects of maintainability for projects under development while schooling you in the use of the full range of proven design techniques including methods for quantitatively measuring maintainability at every stage of the development process the authors also clearly explain how the principles and practices outlined in maintainability can be applied to the evaluation of systems products now in use both to increase their effectiveness and reduce long term costs while theoretical aspects of maintainability are discussed the authors main purpose in writing this book is to help get professionals quickly on line with the essential maintainability concepts and skills hence in addition to clarity of presentation and a rational hierarchical format maintainability features many case studies and sample applications that help to clarify the points covered and numerous practice exercises that help engineers to test their mastery of the concepts and techniques covered maintainability is an invaluable professional tool for engineers from all disciplines who are involved with the design testing prototyping manufacturing and maintenance of products and systems it also serves as a superior course book for graduate level programs in those disciplines

preventive maintenance engineering can significantly contribute to productivity and cost reduction in any industry dependent upon machinery and equipment this handbook provides a comprehensive guide to advanced strategies and procedures for this vital function

in this book the authors provide a fresh look at basic reliability and maintainability engineering techniques and management tools for application to the system maintenance planning and implementation process the essential life cycle reliability centered maintenance activities are focused on maintenance planning and the prevention of failure the premise is that more efficient and therefore effective life cycle maintenance programs can be established using a

well disciplined decision logic analysis process that addresses individual part failure modes their consequences and the actual preventive maintenance tasks this premise and the techniques and tools described emphasize preventive not corrective maintenance the authors also describe the techniques and tools fundamental to maintenance engineering they provide an understanding of the inter relationships of the elements of a complete rem program which are applicable to any complex system or component and are not limited only to the aircraft industry they describe special methodologies for improving the maintenance process these include an on condition maintenance oem methodology to identify defects and potential deterioration which can determine what is needed as a maintenance action in order to prevent failure during use

the safety maintainability and maintenance of systems have become more important than ever before global competition and other factors are forcing manufacturers to produce highly safe and easily maintainable engineering systems this means that there is a definite need for safety maintainability and maintenance professionals to work closely during the system design and other phases of a project and this book will help with that system safety maintainability and maintenance for engineers presents in a single volume what engineers will need when designing systems from the fields of safety maintainability and maintenance of systems when they have to all work together on one project and it provides information that the reader will require no previous knowledge to understand also offered are sources in the reference section at the end of each chapter so that the reader is able to find further information if needed for reader comprehension examples along with their solutions are included at the end of each chapter this book will be useful to many people including design engineers system engineers safety specialists maintainability engineers maintenance engineers engineering managers graduate and senior undergraduate students of engineering researchers and instructors of safety maintainability and maintenance and engineers at large

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