

# Improving Maintainability and Reliability through Design

Graham Thompson

# Improving Maintainability And Reliability Through Design

**Andrew P. Sage, William B. Rouse**



## **Improving Maintainability And Reliability Through Design:**

**Improving Maintainability and Reliability Through Design** Graham Thompson, 1999 Thompson mechanical engineering UMIST UK and researcher and author in the field addresses maintainability and reliability issues in engineering systems and products from a design perspective Chapters covering general design issues basic principles of maintainability and reliability design review equipment and system evaluation failure mode analysis specifications contracts and management concept design equipment design principles for maintainability and reliability design for reliability design to reduce ongoing maintenance costs and the feedback of information to design Suitable both as a reference text for particular design methods and as a broader examination of how to achieve maintainability and reliability through design Distributed by ASME Annotation copyrighted by Book News Inc Portland OR

**Design for Maintainability** Louis J. Gullo, Jack Dixon, 2021-02-23 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

**Methods for Reliability Improvement and Risk Reduction** Michael Todinov, 2018-12-10 Reliability is one of the most important attributes for the products and processes of any company or organization This important work provides a powerful framework of domain independent reliability improvement and risk reducing methods which can greatly lower risk in any area of human activity It reviews existing methods for risk reduction that can be classified as domain independent and introduces the following new domain independent reliability improvement and risk reduction methods Separation Stochastic separation Introducing deliberate weaknesses Segmentation Self reinforcement Inversion Reducing the rate of accumulation

of damage Permutation Substitution Limiting the space and time exposure Comparative reliability models The domain independent methods for reliability improvement and risk reduction do not depend on the availability of past failure data domain specific expertise or knowledge of the failure mechanisms underlying the failure modes Through numerous examples and case studies this invaluable guide shows that many of the new domain independent methods improve reliability at no extra cost or at a low cost Using the proven methods in this book any company and organisation can greatly enhance the reliability of its products and operations      Electronic Reliability Design Handbook ,1988      **Design Applications in Industry and Education** S. Culley,2001-10-10 Expanding the field s reach with new approaches to application Design Applications in Industry and Education is a collection of papers presented at the 13th International Conference on Engineering Design in Glasgow Scotland Founded in 1981 by Workshop Design Konstruktion this conference has grown to become one of the field s major exchanges one of four volumes this book provides current insight based on the ongoing work of the field s leading engineers Novel applications are explored with emphasis on solving barrier challenges suggesting new avenues for implementation and expansion of engineering design s utility      Reverse Engineering of Algebraic Inequalities Michael T. Todinov,2024-12-30 The second edition of Reverse Engineering of Algebraic Inequalities is a comprehensively updated new edition demonstrating the exploration of new physical realities in various unrelated domains of human activity through reverse engineering of algebraic inequalities This book introduces a groundbreaking method for generating new knowledge in science and technology that relies on reverse engineering of algebraic inequalities By using this knowledge the purpose is to optimize systems and processes in diverse fields such as mechanical engineering structural engineering physics electrical engineering reliability engineering risk management and economics This book will provide the reader with methods to enhance the reliability of systems in total absence of knowledge about the reliabilities of the components building the systems to develop light weight structures with very big materials savings to develop structures with very big load bearing capacity to enhance process performance and decision making to obtain new useful physical properties and to correct serious flaws in the current practice for predicting system reliability This book will greatly benefit professionals and mathematical modelling researchers working on optimising processes and systems in diverse disciplines It will also benefit undergraduate students introduced to mathematical modelling post graduate students and post doctoral researchers working in the area of mathematical modelling mechanical engineering reliability engineering structural engineering risk management and engineering design      **Product Development** Anil Mital,Anoop Desai,Anand Subramanian,Aashi Mital,2014-08-12 Product development teams are composed of an integrated group of professionals working from the nascent stage of new product planning through design creation and design review and then on to manufacturing planning and cost accounting An increasingly large number of graduate and professional training programs are aimed at meeting that need by creating a better understanding of how to integrate and accelerate the entire product development process This book is the perfect

accompaniment and a comprehensive guide The second edition of this instructional reference work presents invaluable insight into the concurrent nature of the multidisciplinary product development process It can be used in the traditional classroom in professional continuing education courses or for self study This book has a ready audience among graduate students in mechanical and industrial engineering as well as in many MBA programs focused on manufacturing management This is a global need that will find a receptive readership in the industrialized world particularly in the rapidly developing industrial economies of South Asia and Southeast Asia Reviews the precepts of Product design in a step by step structured process and focuses on the concurrent nature of product design Helps the reader to understand the connection between initial design and interim and final design including design review and materials selection Offers insight into roles played by product functionality ease of assembly maintenance and durability and their interaction with cost estimation and manufacturability through the application of design principles to actual products **Department of Defense**

**appropriations for fiscal year 1978** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Department of Defense, 1977 **Continual Improvement: A Bibliography with Indexes, 1992-1993**, 1994 **Risk and**

**Uncertainty Reduction by Using Algebraic Inequalities** Michael T. Todinov, 2020-06-02 This book covers the application of algebraic inequalities for reliability improvement and for uncertainty and risk reduction It equips readers with powerful domain independent methods for reducing risk based on algebraic inequalities and demonstrates the significant benefits derived from the application for risk and uncertainty reduction Algebraic inequalities Provide a powerful reliability improvement risk and uncertainty reduction method that transcends engineering and can be applied in various domains of human activity Present an effective tool for dealing with deep uncertainty related to key reliability critical parameters of systems and processes Permit meaningful interpretations which link abstract inequalities with the real world Offer a tool for determining tight bounds for the variation of risk critical parameters and complying the design with these bounds to avoid failure Allow optimising designs and processes by minimising the deviation of critical output parameters from their specified values and maximising their performance This book is primarily for engineering professionals and academic researchers in virtually all existing engineering disciplines **Selecting the Right Manufacturing Improvement Tools** Ron

Moore, 2011-04-01 Selecting the Right Manufacturing Improvement Tools offers an easy to read and comprehensive review of the most important current industrial improvement tools that every manufacturing or industrial executive operational manager or engineer needs to know including which tool to use for a particular type of manufacturing situation But his book goes beyond a simple comparison of improvement tools to show how these tools can be implemented and supported Instead it offers a broader strategic explanation of how they relate to one another and their relative strengths and weaknesses in the larger context of the entire enterprise It demonstrates how to use these tools in an integrated way such that they are not just be viewed as another program of the month or management fad Selecting the Right Manufacturing Improvement Tools

guides the use of these individual management tools within the need for aligning the organization developing leadership and managing change all for creating an environment where these tools will be more successfully applied Provides an excellent review of the most popular improvement tools and strategies Lean Manufacturing Kaizen including 5S Kanban Quick Changeover and Standardization Total Productive Maintenance Six Sigma Supply Chain Management Reliability Centered Maintenance Predictive Maintenance or Condition Monitoring and Root Cause Analysis Illustrates the use of each tool with case studies using a fictitious company called Beta International which continues its journey to business excellence from author s previous book Making Common Sense Common Practice Describes the foundational elements necessary for any tool to work leadership organizational alignment and discipline teamwork performance measurement change management and the role of innovation Concludes with a recommended hierarchy for the use of the various tools and provides enough information so that individual circumstances and issues can be related to these improvement tools making better decisions and having greater business success

**Defense Management Journal** ,1984      **Fundamentals of Quality Control and Improvement** Amitava Mitra,2021-05-04 The newest edition of an insightful and practical statistical approach to quality control and management In the newly revised and thoroughly updated Fifth Edition of Fundamentals of Quality Control and Improvement accomplished academic consultant and author Dr Amitava Mitra delivers a comprehensive and quantitative approach to quality management techniques The book demonstrates how to integrate statistical concepts with quality assurance methods incorporating modern ideas strategies and philosophies of quality management You ll discover experimental design concepts and the use of the Taguchi method to incorporate customer needs improve lead time and reduce costs The new edition also includes brand new case studies at the end of several chapters references to the statistical software Minitab 19 and chapter updates that add discussions of trending and exciting topics in quality control The book includes access to supplementary material for instructors consisting of a new instructor s solutions manual and PowerPoint slides as well as access to data sets for all readers Readers will also benefit from the inclusion of A thorough introduction to the evolution of quality and definitions of quality quality control quality assurance quality circles and quality improvement teams An exploration of customer needs and market share as well as the benefits of quality control and the total quality system Practical discussions of quality and reliability quality improvement product and service costing and quality costs A concise treatment of how to measure quality costs the management of quality and the interrelationship between quality and productivity Perfect for upper level undergraduate and graduate students in quality control and improvement the Fifth Edition of Fundamentals of Quality Control and Improvement will also earn a place in the libraries of business students and those undertaking training programs in Six Sigma

**Hearings** United States. Congress. House. Committee on Appropriations,1971      **Maintenance Audits Handbook** Diego Galar Pascual,Uday Kumar,2016-04-06 This book addresses issues and challenges of performance measurement in the maintenance function It presents a proposal of indicators with a

framework that classifies and sorts regarding functional and hierarchical aspects The book has been developed with different aspects of traditional literature i e several frameworks or natural groupings like BSC Balanced Scorecard Multicriteria framework Neely Prism and adaptation of these frameworks Hierarchies for the use of indicators and benchmark values are provided to allow quantification comparison and emission of recommendations **Interpretation of Algebraic**

**Inequalities** Michael Todinov,2021-10-14 This book introduces a new method based on algebraic inequalities for optimising engineering systems and processes with applications in mechanical engineering materials science electrical engineering reliability engineering risk management and operational research This book shows that the application potential of algebraic inequalities in engineering and technology is far reaching and certainly not restricted to specifying design constraints Algebraic inequalities can handle deep uncertainty associated with design variables and control parameters With the method presented in this book powerful new knowledge about systems and processes can be generated through meaningful interpretation of algebraic inequalities This book demonstrates how the generated knowledge can be put into practice through covering the algebraic inequalities suitable for interpretation in different contexts and describing how to apply this knowledge to enhance system and process performance Depending on the specific interpretation knowledge applicable to different systems from different application domains can be generated from the same algebraic inequality Furthermore an important class of algebraic inequalities has been introduced that can be used for optimising systems and processes in any area of science and technology provided that the variables and the separate terms of the inequalities are additive quantities With the presented various examples and solutions this book will be of interest to engineers students and researchers in the field of optimisation engineering design reliability engineering risk management and operational research *Handbook of Systems Engineering and Management* Andrew P. Sage,William B. Rouse,2014-12-31 The trusted handbook now in a new edition This newly revised handbook presents a multifaceted view of systems engineering from process and systems management perspectives It begins with a comprehensive introduction to the subject and provides a brief overview of the thirty four chapters that follow This introductory chapter is intended to serve as a field guide that indicates why when and how to use the material that follows in the handbook Topical coverage includes systems engineering life cycles and management risk management discovering system requirements configuration management cost management total quality management reliability maintainability and availability concurrent engineering standards in systems engineering system architectures systems design systems integration systematic measurements human supervisory control managing organizational and individual decision making systems reengineering project planning human systems integration information technology and knowledge management and more The handbook is written and edited for systems engineers in industry and government and to serve as a university reference handbook in systems engineering and management courses By focusing on systems engineering processes and systems management the editors have produced a long lasting handbook

that will make a difference in the design of systems of all types that are large in scale and or scope *Air Force Journal of Logistics* ,1995 *NASA Authorization for Fiscal Year 1973* United States. Congress. Senate. Committee on Aeronautical and Space Sciences,1972 Encyclopedia of Quantitative Risk Analysis and Assessment ,2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online



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