

## Logistics Engineering And Management Prentice Hall

Although Reliability Engineering can trace its roots back to World War II, its application to medical devices is relatively recent, and its treatment in the published literature has been quite limited. With the medical device industry among the fastest growing segments of the US economy, it is vital that the engineering, biomedical, manufacturing, and design communities have up-to-date information on current developments, tools, and techniques. Medical Device Reliability and Associated Areas fills this need with broad yet detailed coverage of the field. It addresses a variety of topics related - directly and indirectly - to reliability, including human error in health care systems and software quality assurance. With emphasis on concepts rather than mathematical rigor, a multitude of examples, exercises, tables, and references, this is one resource that everyone connected to the medical device industry must have.

CD-ROM with a simulation system and numerous solved models is attached to the book. Distributed systems are a continuously expanding area of computer science and computer engineering. This book addresses the need for literature on modeling and simulation techniques for distributed systems. For simulation modeling of distributed systems in the book, a specific class of extended Petri nets is used that allows to easily represent the fundamental processes of any distributed system. The book is intended, first of all, as a text for related graduate-level university courses on distributed systems in computer science and computer engineering. Other computer science and computer engineering courses would also find the book useful as a source of practical information for a broad community of those graduate students who are busy with simulation in their study and research. The book can be useful also to academics who give related graduate courses or deliver research-oriented modules for graduate students. Further, the book can be helpful to system architects and developers who apply modeling and simulation techniques as a step in the design and implementation of their systems. Containing a large number of models, with commented source texts and simulation results on the attached CD-ROM, it can also serve as valuable reference book for researchers who want to develop their own models in terms of Petri nets.

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.

Introduction to logistics - Reliability, maintainability, and availability measures - The measures of logistics and system support - The system engineering process - Logistics and supportability analysis - Logistics in system design and development - Logistics in the production/construction phase - Logistics in the system utilization, sustaining support, and retirement phases - Logistics management.

Systems Engineering Guidebook: A Process for Developing Systems and Products is intended to provide readers with a guide to understanding and becoming familiar with the systems engineering process, its application, and its value to the successful implementation of systems development projects. The book describes the systems engineering process as a multidisciplinary effort. The process is defined in terms of specific tasks to be accomplished, with great emphasis placed on defining the problem that is being addressed prior to designing the solution.

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 (ReM) 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 Third Edition of Essentials of Project and Systems Engineering Management enables readers to manage the design, development, and engineering of systems effectively and efficiently. The book both defines and describes the essentials of project and systems engineering management and, moreover, shows the critical relationship and interconnection between project management and systems engineering. The author's comprehensive presentation has proven successful in enabling both engineers and project managers to understand their roles, collaborate, and quickly grasp and apply all the basic principles. Readers familiar with the previous two critically acclaimed editions will find much new material in this latest edition, including: Multiple views of and approaches to architectures The systems engineer and software engineering The acquisition of systems Problems with systems, software, and requirements Group processes and decision making System complexity and integration Throughout the presentation, clear examples help readers understand how concepts have been put into practice in real-world situations. With its unique integration of project management and systems engineering, this book helps both engineers and project managers across a broad range of industries successfully develop and manage a project team that, in turn, builds successful systems. For engineering and management students in such disciplines as technology management, systems engineering, and industrial engineering, the book provides excellent preparation for moving from the classroom to industry.

Introduction Vision, Mission and Strategy Maintenance Basics Planning and Scheduling Parts, Materials and Tools Management Reliability Operational Reliability M&R Tools Performance Measure - Metrics Human Side of M&R Best Practices/Benchmarking Maintenance Excellence Appendices

A practical, step-by-step guide to total systems management Systems Engineering Management, Fifth Edition is a practical guide to the tools and methodologies used in the field. Using a "total systems management" approach, this book covers everything from initial establishment to system retirement, including design and development, testing, production, operations, maintenance, and support. This new edition has been fully updated to reflect the latest tools and best practices, and includes rich discussion on computer-based modeling and hardware and software systems integration. New case studies illustrate real-world application on both large- and small-scale systems in a variety of industries, and the companion website provides access to bonus case studies and helpful review checklists. The provided instructor's manual eases classroom integration, and updated end-of-chapter questions help reinforce the material. The challenges faced by system engineers are candidly addressed, with full guidance

toward the tools they use daily to reduce costs and increase efficiency. System Engineering Management integrates industrial engineering, project management, and leadership skills into a unique emerging field. This book unifies these different skill sets into a single step-by-step approach that produces a well-rounded systems engineering management framework. Learn the total systems lifecycle with real-world applications Explore cutting edge design methods and technology Integrate software and hardware systems for total SEM Learn the critical IT principles that lead to robust systems Successful systems engineering managers must be capable of leading teams to produce systems that are robust, high-quality, supportable, cost effective, and responsive. Skilled, knowledgeable professionals are in demand across engineering fields, but also in industries as diverse as healthcare and communications. Systems Engineering Management, Fifth Edition provides practical, invaluable guidance for a nuanced field. In today's globalised economic development, international transactions form an integral part of economic activities. Logistics Management encompasses planning and management of all activities, involving sourcing and procurement of cargo by effective and economically feasible coordination and collaboration with channel partners, and provision of product and service packages from point-of-origin to point-of-consumption at the right time and at the right place. This book gives, with theoretical and practical expertise, a comprehensive coverage of the logistic concepts, techniques, and their applications in the world cargo industry. Besides, it provides an in-depth understanding of the strategic framework of Logistics Management, the technologies, and the components used in logistic operations. It also covers export-import trade and documentations, shipping formalities, warehouse and inventory management, ERP concepts, logistics operation of major ports—and more. Key Feature : Case Studies are provided at the end of most chapters, which tend a practical orientation to the subject. This book is primarily intended as a text for postgraduate students of Management (MBA/MIB) and Commerce (M.Com.IB). It will also prove useful for the students of those engineering disciplines where the subject is prescribed as an elective course. In addition, practising managers in international business will find the book valuable as a reference

This book covers the important elements of industrial engineering that all engineers need to know in order to become effective in their day-to-day activities. It explores basic topics such as scheduling, quality control, forecasting, and queueing theory. Other topics include paving a path to production control, engineering and its management, and the operational aspects of manufacturing and service industries. The reader will learn to apply these principles and tools, not only to initiate improvements in their places of work, but also to pave career path to management and positions with higher levels of responsibility and decision-making. This invaluable resource is a professional book for all engineers and an all-in-one refresher reference for industrial engineers. Features: •Emphasizes scheduling and sequencing of operations and quality control •Includes cases from various engineering disciplines and tailored to the field, such as manufacturing plants and service industries •Exposes the reader to the basic concepts of a range of topics in industrial engineering and demonstrates how and why the application of such concepts can be effective in improving efficiency and productivity in both start-up companies and large corporations

Systems Engineering and Management for Sustainable Development is a component of Encyclopedia of Technology, Information, and Systems Management Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. This theme discusses: basic principles of systems engineering and management for sustainable development, including: cost effectiveness assessment; decision assessment, tradeoffs, conflict resolution and negotiation; research and development policy; industrial ecology; and risk management strategies for sustainability. The emphasis throughout will be upon the development of appropriate life-cycles for processes that assist in the attainment of sustainable development, and in the use of appropriate policies and systems management approaches to ensure successful application of these processes. The general objectives of these chapters is to illustrate the way in which one specific issue, such as the need to bring about sustainable development, necessarily grows in scope such that it becomes only feasible to consider the engineering and architecting of appropriate systems when the specific issue is imbedded into a wealth of other issues. The discussions provide an illustration of the many attributes and needs associated with the important task of utilizing information and knowledge, enabled through systems engineering and management, to engineer systems involving humans, organizations, and technology, in the support of sustainability. These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

If you are not already in a management position, chances are you soon will be. According to the Bureau of Statistics, the fastest growing areas of employment for engineers are in engineering/science management. With over 200 contributing authors, The Technology Management Handbook informs and assists the more than 1.5 million engineering managers in the practice of technical management. Written from the technical manager's perspective and written for technologists who are managers, The Technology Management Handbook presents in-depth information on the science and practice of management. Its comprehensive coverage encompasses the field of technology management, offering information on: Entrepreneurship Innovations Economics Marketing Product Development Manufacturing Finance Accounting Project Management Human Resources International Business

Logistics is an integral part of our everyday life. Today it influences more than ever a large number of human and economic activities. In this book, authors try to illustrate some advanced logistics and supply chain management topics, recently mentioned by academic and industrial personnel. This book has been organized in 12 chapters such that the reader can study each chapter not only independently as shown in Fig. 1; but also as part of a whole. If someone wants to study the book more deeply, the suggested approach for this study is shown in Fig. 2. So the readers of this book may be divided into at least two groups: (1) students in Master's courses or higher, who can use this book in their courses as a whole, and (2) experts who want to learn more about a new topic in logistics and supply chain management; this group may want to read a chapter about a special topic that is found in this book. In the context of global competition, the more latent topics in logistics supply chain management are fast growing. This book falls within this perspective and presents 12 chapters that well illustrate the variety and complexity of these topics. This book is organized as follows: Chapter 1 introduces logistics and supply chain management and contains some primal definitions about these two concepts; some obstacles, prerequisites and infrastructures of modernized logistics and supply chain management and global supply chain management are illustrated.

This text offers a practical approach for understanding the US Army's extremely complex global logistics system, widely acknowledged as one of the largest in the world. The focus is on inventory management policy where prescriptions are illuminated through the prism of an enterprise supply chain analysis. Although Army aviation logistics examples are emphasized throughout, the fundamental issues and potential solutions are broadly applicable to other large-scale military and industrial supply chains as well. Following a summary of recent trends for background and context, a multi-stage conceptual model of the logistics structure is presented to segment and guide the effort. This multi-stage model is used to systematically analyze major organizational components of the supply chain, diagnose structural disorders and prescribe solutions. Integration challenges are addressed using cost-benefit perspectives which incorporate supply chain objectives of efficiency, resilience, and effectiveness. The design and evaluation section proposes an "analytical architecture" consisting of four complementary modeling approaches, collectively referred to as "dynamic strategic logistics planning", to enable a coordinated, enterprise approach for Army Logistics Transformation. An organizational construct is presented for an "engine for innovation" to accelerate and sustain continual improvement for Army logistics and supply chain management - a "Center for Innovation in Logistics Systems". Finally, strategic management challenges associated with enterprise integration and transformational change are

addressed: organizational design; management information and decision support systems; strategic alignment for a learning organization; and workforce considerations including human capital investment needs. The text concludes with a relevant historical vignette and closes with a summary of expected benefits.

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.

Effective logistics and distribution is essential to the long-term success of a company and is an area of constant innovation. Taking an international perspective, this book outlines the current situation and provides useful ideas and practical information on trends. This edition has been updated to cover: the strategic development of logistics and the supply chains; the design and implementation of logistics strategies; the continuing integration of the supply chain; the developments in e-commerce; the effects of lean and agile operations; measuring and improving performance; environmental issues; and international views on logistics.

This comprehensive textbook provides a logical process for fact-based decision making for the most challenging systems problems. It is composed of three bedrock elements to improve readers' understanding and analysis of the most challenging systems problems that exist today: systems thinking, which identifies important interconnections between a system and its environment; systems engineering, which describes the activities of professional systems engineers; and systems decision making, which provides fact-based information to support major system decisions made at every life cycle stage.

Tabu Search (TS) and, more recently, Scatter Search (SS) have proved highly effective in solving a wide range of optimization problems, and have had a variety of applications in industry, science, and government. The goal of Metaheuristic Optimization via Memory and Evolution: Tabu Search and Scatter Search is to report original research on algorithms and applications of tabu search, scatter search or both, as well as variations and extensions having "adaptive memory programming" as a primary focus. Individual chapters identify useful new implementations or new ways to integrate and apply the principles of TS and SS, or that prove new theoretical results, or describe the successful application of these methods to real world problems.

This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

Maintainability is of crucial importance throughout industry and is established as one of the most important issues in the aerospace and defence arena. No new system can be introduced without full maintainability, analysis and demonstration; a type of analysis which reduces life cycle costs by decreasing operational and maintenance costs and increasing systems operational effectiveness, leading in turn to the creation of more competitive products. This book establishes the full methodology for maintainability mathematics and modelling, as well as the relationship between the maintainability and maintenance processes.

Achieving state-of-the-art excellence and attaining the cost reductions associated with outstanding logistics efforts is an obvious gain in terms of competitive edge and profitability. As logistics tools evolve in comprehensiveness and complexity, and the use of these new tools becomes more pervasive, maintaining a position of leadership in logistics functions also becomes increasingly difficult. And in spite of its importance not only to the bottom line but also to the functionality of your operations, logistics improvement often lags industry requirements. Taking a unique engineering approach, the Logistics Engineering Handbook provides comprehensive coverage of traditional methods and contemporary topics. The book delineates basic concepts and practices, provides a tutorial for common problems and solution techniques, and discusses current topics that define the state of the logistics market. It covers background information that defines engineering logistics, activities and implementation, transportation management, enabling technologies, and emerging trends. Each chapter includes either a brief case study overview of an industrially motivated problem or a tutorial using fabricated data designed to highlight important issues. Presentation, organization, and quality of content set this book apart. Its most distinctive feature is the engineering focus, instead of the more usual business/supply chain focus, that provides a mathematically rigorous treatment without being overly analytical. Another important characteristic is the emphasis on transportation management, especially freight transportation. The section on emerging and growing trends makes the handbook particularly useful to the savvy logistics professional wishing to exploit possible future trends in logistics practice. The handbook is a one-stop shopping location for logistics engineering reference materials ranging from basics to traditional problems, to state-of-the-market concerns and opportunities.

Decision Making in Systems Engineering and Management is a comprehensive textbook that provides a logical process and analytical techniques for fact-based decision making for the most challenging systems problems. Grounded in systems thinking and based on sound systems engineering principles, the systems decisions process (SDP) leverages multiple objective decision analysis, multiple attribute value theory, and value-focused thinking to define the problem, measure stakeholder value, design creative solutions, explore the decision trade off space in the presence of uncertainty, and structure successful solution implementation. In addition to classical systems engineering problems, this approach has been successfully applied to a wide range of challenges including personnel recruiting, retention, and management; strategic policy analysis; facilities design and management; resource allocation; information assurance; security systems design; and other settings whose structure can be conceptualized as a system.

"This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international

authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

?Engineering and infrastructure assets maintain the lifeline of economies. It is, therefore, critical to manage these assets in such a way that they provide a consistent level of service throughout their lifecycle. Management of asset lifecycle, however, is information intensive and utilises a plethora of information systems. The role of these systems in asset management is much more profound. It extends beyond the organizational boundaries and addresses business relationships with external stakeholders to deliver enhanced level of business outcomes. In doing so information systems are not only required to translate business strategic considerations into action, but are also expected to produce learnings and feedback that informs business strategy and aids in strategic reorientation.

Logistics Engineering and Management Pearson College Division

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.

In today's manufacturing environment, the integration of commercial, production, maintenance, and engineering functions is a common and crucial goal. In this timely volume, Richard G. Lamb presents a new standard within the enterprise and plant design management. Lamb shows readers how to advance the plant's role in enterprise business performance and leadership by most cost effectively achieving the mechanical availability necessary to perform in the face of current events, business cycles, and industry trends. Performance is from the designed and managed reliability and maintainability of its equipment.

This utterly comprehensive work is thought to be the first to integrate the literature on the physics of the failure of complex systems such as hospitals, banks and transport networks. It has chapters on particular aspects of maintenance written by internationally-renowned researchers and practitioners. This book will interest maintenance engineers and managers in industry as well as researchers and graduate students in maintenance, industrial engineering and applied mathematics.

Logistics is a \$700 billion industry in the USA and is the second largest employer of college graduates. Logistics costs account for nearly 30% of the sales dollar, and logistics activities are essential to satisfying the ever-changing customer demand in terms of variety and availability. Today the need for cutting edge, sophisticated logistics practices has never been greater. This unique text is squarely focused on the key activities within the functional areas of logistics and transportation, with emphasis placed on the quantitative treatment of the design and planning issues in logistics. In scope, Logistics and Transportation comprehensively covers almost all the elements of the supply chain. Moreover, it includes a number of topics that are generally not covered by most popular logistics texts. These include functional areas such as: vendor selection, inventory models with inventory costs, advanced transportation models, logistics metrics, and latest trends in logistics. The text is primarily designed for use in the classroom by senior undergraduate and graduate-level students. It is also a useful resource for practicing transportation and logistics professionals. Readers will appreciate the references for recommended further reading, related training aids and problem sets given at the end of each chapter, as well as the two comprehensive logistics cases presented at the end of the text.

An authoritative exploration of logistics management within the engineering design and development process, this book concentrates on the design, sustaining maintenance and support of "systems." The volume provides complete coverage of reliability, maintainability, and availability measures, the measures of logistics and system support, the system engineering process, logistics and supportability analysis, system design and development, the production/construction phase, utilization, sustaining support and retirement phases, and logistics management. For those interested in logistics engineering and management.

Logistics has advanced from the warehousing and transportation to boardrooms of the successful leading companies across the world. Logistic capabilities supplement the supply chain operation. It plays an important role in both organizational strategy and

"This book is about systems. It concentrates on the engineering of human-made systems and on systems analysis. In the first case, emphasis is on the process of bringing systems into being, beginning with the identification of a need and extending through requirements determination, functional analysis and allocation, design synthesis and evaluation, validation, operation and support, and disposal. In the second case, focus is on the improvement of systems already in being. By employing the iterative process of

analysis, evaluation, modification, and feedback most systems now in existence can be improved in their effectiveness, product quality, affordability, and stakeholder satisfaction."--BOOK JACKET.

Bringing together business and engineering to reliability analysis With manufactured products exploding in numbers and complexity, reliability studies play an increasingly critical role throughout a product's entire life cycle—from design to post-sale support. Reliability: Modeling, Prediction, and Optimization presents a remarkably broad framework for the analysis of the technical and commercial aspects of product reliability, integrating concepts and methodologies from such diverse areas as engineering, materials science, statistics, probability, operations research, and management. Written in plain language by two highly respected experts in the field, this practical work provides engineers, operations managers, and applied statisticians with both qualitative and quantitative tools for solving a variety of complex, real-world reliability problems. A wealth of examples and case studies accompanies:

- \* Comprehensive coverage of assessment, prediction, and improvement at each stage of a product's life cycle
- \* Clear explanations of modeling and analysis for hardware ranging from a single part to whole systems
- \* Thorough coverage of test design and statistical analysis of reliability data
- \* A special chapter on software reliability
- \* Coverage of effective management of reliability, product support, testing, pricing, and related topics
- \* Lists of sources for technical information, data, and computer programs
- \* Hundreds of graphs, charts, and tables, as well as over 500 references
- \* PowerPoint slides are available from the Wiley editorial department.

Of the more than \$300 billion spent on plant maintenance and operations, U.S. industry spends as much as 80 percent of this amount to correct chronic failures of machines, systems, and people. With machines and systems becoming increasingly complex, this problem can only worsen, and there is a clear and pressing need to establish comprehensive equi

The fully revised new edition of this well known and respected book is characterized by the more international perspective it has taken on through contributions from internationally known authors and a final section on international logistics which examines in turn strategies for West and East Europe, the Far East and North America. Logistics has a key strategic role to play in the long-term plans of major companies, and is recognized as a vital part of every organization. To a large extent this crucial new role is due to an expanded view of logistics, which now includes all the activities related to the supply chain from initial suppliers through to final customers. This book provides a wealth of useful ideas and practical information on all the current and future trends in logistics and distribution. Written by a host of contributors drawn from industry, constancy and education, this book provides new insights into the most significant aspects of logistics, including: developments in logistics supply chain strategies lean logistics efficient customer response logistics in different countries partnering and strategic alliances re-engineering the logistics function From logistics professionals, consultants, professors and students to managers from different backgrounds who want an appreciation of current trends in the subject, this book is essential reading. About the author: Donald Waters, a past member of the Institute of Logistics and currently a member of the Canadian Association of Logistics Management, has lectured weekly on logistics, operational research and management science, and has brought his academic career to fruition as Professor of Operations Management at the University of Calgary, Canada. He is also the author of Operations Management in the Kogan Page Fast Track MBA Series. Features

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 book's 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.

In a context of global competition, the optimization of logistics systems is inescapable. Logistics Systems: Design and Optimization falls within this perspective and presents twelve chapters that well illustrate the variety and the complexity of logistics activities. Each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics. The first chapter, by Riopel, Langevin, and Campbell, develops a framework for the entire book. It classifies logistics decisions and highlights the relevant linkages to logistics decisions. The intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities. Each of the chapters focus on quantitative methods for the design and optimization of logistics systems.

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