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## EVERETT CRAWFORD

**Engineering Maintenance Management** PHI Learning Pvt. Ltd.

This text is an accessible and comprehensive guide to the principles, practices, functions and challenges of maintenance engineering and management. With a strong emphasis on basic concepts and practical techniques throughout, the book demonstrates in detail how effective technical competencies in maintenance management can be built in engineering organizations. The book thus provides students and practising engineers alike with the methodologies and tools needed to understand and implement the systems approach to maintenance management. The major goals for the text include : To provide a good understanding of different types of maintenance management systems such as breakdown, preventive, predictive, proactive. To explain benefits of planned maintenance. To explain condition-based monitoring techniques with focus on vibration monitoring, thermography, and motor condition monitoring. To stress the role of reliability engineering in maintenance with tools like Failure Mode and Effect Analysis, Root Cause Analysis, and Criticality Matrix. To explain activities of maintenance planning with focus on shutdown planning, human resources development, and tools employed for monitoring. To emphasize management functions such as procurement of spares, measurement of maintenance effectiveness, etc. To give an overview of project management tools such as PERT etc. To introduce computerized maintenance management systems. To explain the basics of hazard analysis and fault tree analysis. Review questions in each chapter, worked-out examples wherever applicable, case studies and an exclusive appendix on "Selected Questions and Answers" are all designed to provoke critical thinking. This text is suitable for undergraduate and postgraduate courses in Maintenance Engineering taught in the department of mechanical engineering in almost all universities.

*Maintenance Engineering and Management* McGraw-Hill Companies

Maintenance has become one of the most important aspects of industrial activities. It directly affects quality, productivity, profit, safety and environment. This compact yet comprehensive book deals with almost all the maintenance systems available in literature. These systems are divided into groups and subgroups, and the text gives, for better understanding, a comparison of these on the basis of their advantages and disadvantages. Besides, the text discusses the methods of selecting a maintenance system for industrial plants as well as for individual equipment. It focuses on the policies, strategies and options that can be adopted for selecting a proper maintenance system. KEY FEATURES : Presents the maintenance system in the form of a simple and logical flow chart that is easy to understand, follow and use. Discusses Total Productive Maintenance (TPM), Reliability Centred Maintenance (RCM), and Quality Maintenance (QM). Describes the various systems along with explanation, comparison and stages. The book is intended for undergraduate and postgraduate students of Engineering (Mechanical/Industrial and Production Engineering) and postgraduate students of management. In addition, practising managers should find the book quite useful.

*Maintenance engineering and management* Lexington Books

The field of maintenance is hard to approach because the language is strange. This book introduces the fundamentals of maintenance and will allow the outsider to understand the jargon. The book offers a complete survey of the field, a review of maintenance management, a manual for cost reduction, a primer for the stock room, and a training regime for new supervisors, managers and planners.

*Maintenance Engineering & Management* Elsevier

To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

*A Textbook of Reliability and Maintenance Engineering* CRC Press

This book is highly useful for the students of B.E./B.Tech. of Punjab Technological University, Jalandhar and also for the other Technological Universities of India as per New Syllabus. Accordingly, few sample question are given at the end of each chapter. The chapter and topics, covered in this book, are expected to encompass the syllabus that may be needed by various colleges/ institutions in maintenance field. It also serves as a reference book for students of all other engineering disciplines in universities, colleges, institutions and also vast numbers of engineer, managers

supervisors, technologists and other persons working in or associated with maintenance and upkeep of machines, equipments and systems in any shop, plant or industry.

**Maintenance for Industrial Systems** Springer Science & Business Media

Emphasizes design for maintenance and serviceability, systems engineering, determining future maintenance needs, maintainability process, quantitative methods, allocation and prediction, design and production considerations, computer aids, checklists for design reviews, and how to gain high production and profits while minimizing life cycle costs.

*Maintenance Engineering Handbook, Eighth Edition* John Wiley & Sons

Maintenance of equipment, machinery systems and allied infrastructure comprises the ways and means of optimizing the available resources of manpower, materials, tools and test equipment, within a set of constraints, to help achieve the targets of an organization by minimizing the downtimes. Whether the goal is to produce and sell a product at a profit or is simply to perform a mission in a cost-effective manner, the maintenance principles discussed in this text apply equally to all such types of organizations. In consonance with the growth of the industry and its modernization and the need to minimize the downtimes of machinery and equipment, the engineering education system has included maintenance engineering as a part of its curriculum. This second edition of the book continues to focus on the basics of this expanding subject, with a broad discussion of management aspects as well, for the benefit of the engineering students. It explains the concept of a maintenance system, the evaluation of its maintenance functions, maintenance planning and scheduling, the importance of motivation in maintenance, the use of computers in maintenance and the economic aspects of maintenance. This book also discusses the manpower planning and energy conservation in maintenance management. Presented in a readable style, the book brings together the numerous aspects of maintenance functions emphasizing the importance of this discipline in the engineering education. In this edition a new chapter titled, Advances in Maintenance (Chapter 21), has been included to widen the coverage of the book. Besides the students of engineering, especially those in streams of mechanical engineering and its related disciplines such as mining, industrial and production, this book will be useful to the practising engineers as well.

*Maintenance Engineering & Management* McGraw Hill Professional

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.

**Maintenance engineering & asset management** CRC Press

No matter which industry a company is a part of, its profitability, like its products, is driven by the reliability and performance of its plant(s). The fundamentals for maintenance found in this volume are applicable to a multitude of industries: power, process, materials, manufacturing, transportation, communication, and many others. This book shows the engineer how to select, install, maintain, and troubleshoot critical plant machinery, equipment, and systems. NEW to this edition: New material includes a chapter on inspections, providing practical guidelines for effective visual inspections, the key to effective preventive maintenance. Also included in the revision will be multiple chapters on equipment, such as pumps, compressors, and fans. Provides practical knowledge about plant machinery, equipment, and systems for the new hire or the veteran engineer Covers a wide array of topics, from shaft alignment and bearings to rotor balancing and flexible intermediate drives Delivers must-have information to the engineer which he/she will use on a daily basis, in day-to-day activities, that will affect the reliability and profitability of the plant

*GUIDE M8 MAINTENANCE ENGINEERING AND MANAGEMENT* Springer

This introductory textbook links theory with practice using real illustrative cases involving products, plants and infrastructures and exposes the student to the evolutionary trends in maintenance. Provides an interdisciplinary approach which links, engineering, science, technology, mathematical modelling, data collection and analysis, economics and management Blends theory with practice illustrated through examples relating to products, plants and infrastructures Focuses on concepts, tools and techniques Identifies the special management requirements of various engineered objects (products, plants, and infrastructures)

**Handbook of Maintenance Management and Engineering** John Wiley & Sons

The book aims to be reading for asset maintenance management in a perspective of whole life cycle of any type of physical asset. It deals with acquisition management, including econometric models to evaluate its life cycle, and the maintenance policies to adopt during its life until withdrawal. It also covers vital areas such as EAM/CMMS systems and its integration with the many technologies that are used to aid condition monitoring and the internet of things to improve maintenance management and to increase equipment availability. This will equip readers with new management methodologies, their requisites, and its importance to the improvement of corporate competitiveness. Key Features • Presents life cycle analysis in asset management • Attribution of tools to improve the life cycle of equipment • Provides assistance on the diagnosis of the maintenance state • Presentation of the state-of-the-art of technology to aid maintenance • Explores integration of EAM/CMMS systems with internet of things

**Maintenance Engineering Handbook** Springer Science & Business Media

This softbound workbook is the ideal guide for readers of Gulati's Maintenance and Reliability Best Practices, 2nd edition, as well as for students in a

classroom or seminar/workshop setting. Each chapter provides extensive Powerpoint-style summaries of important vocabulary and essential concepts, in a format that encourages students to write additional notes and evaluations of the content. Includes reviews of chapter objectives and summaries. Provides readers with answers to the main text's assessment exercises as well as additional questions to direct their study. Each chapter concludes with a set of independent research questions; these questions help readers expand their understanding of the content as they prepare to apply best practices.

**GUIDE M12 MAINTENANCE ENGINEERING AND MANAGEMENT** S. Chand Publishing

Productivity and Reliability-Based Maintenance Management, Second Edition is intended to provide a strong yet practical foundation for understanding the concepts and practices of total productive maintenance (TPM) management—a proactive asset and resource management strategy that is based on enhancing equipment reliability and overall enterprise productivity. The book is intended to serve as a fundamental yet comprehensive educational and practical guide for departing from the wait-failure-emergency repair cycle that has plagued too many industries, instead advancing a proactive and productive maintenance strategy. It is not intended to be a how-to-fix-it manual, but rather emphasizes the concept of a world-class maintenance management philosophy to avoid the failure in the first place. Universities, junior and community colleges, and technical institutes as well as professional, corporate, and industrial training programs can benefit by incorporating these fundamental concepts in their technical and managerial curricula. The book can serve as a powerful educational tool for students as well as for maintenance professionals and managers. In addition to updating the previous historical and statistical data and tables, the second edition expands on and adds to case studies based on current maintenance-related events. Several numerical examples and explanations are revised in order to enhance the clarity of the methodology. The second edition introduces the readers to the state-of-the-art concepts of the Internet of Things (IoT), smart sensors, and their application to maintenance and TPM.

**Introduction to Maintenance Engineering** Industrial Press Inc.

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

**Maintenance Engineering Handbook** PHI Learning Pvt. Ltd.

Generations of engineers and managers have turned to this popular handbook for expert guidance on maintenance for all types of facilities, including industrial plants, power generating stations, refineries, schools, hospitals, and office buildings. Now revised and updated with 40% new material, the Fifth Edition offers you detailed information on every aspect of maintenance engineering - from new technical advances to maintaining the latest machinery. You'll find practical advice from 55 specialists on the organization and management of the maintenance function ... establishing costs and controls ... maintenance of plant facilities ... sanitation and housekeeping ... maintenance of mechanical and electrical equipment ... and maintenance of service equipment. The Fifth Edition also discusses new ways of using computers to manage maintenance procedures for machinery, physical plant, and fixed support service - and presents all-new material on lubrication, instruments and vibration, and chemical corrosion control and cleaning. Whether you're a plant engineer, facilities manager, or maintenance engineer, this updated handbook will give you the on-the-job information and skills needed to solve virtually any maintenance problem!

*Maintainability and Maintenance Management* Purdue University Press

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.

*MAINTENANCE ENGINEERING AND MANAGEMENT* Elsevier

Hanbboek maintenance engineering en management: het verbeteren, managen en onderhouden van technische systemen.

*MAINTENANCE ENGINEERING AND MANAGEMENT* McGraw-Hill Companies

The Most Complete, Current Guide to Every Aspect of Maintenance Engineering Extensively updated to cover the latest technologies and methods, Maintenance Engineering Handbook, Eighth Edition offers in-depth details on identifying and repairing faulty equipment. This definitive resource focuses on proven best practices for maintenance, repair, and overhaul (MRO), inventory management, root-cause analysis, and performance management. This thoroughly revised edition contains new chapters on: Reliability-based maintenance Preventive maintenance Sustaining maintenance Ultrasonics Operating dynamics Simplified failure modes and effects analysis Criticality analysis Process and value-stream mapping Featuring contributions from noted experts in the field, this authoritative reference will help you to successfully reduce excessive downtime and high maintenance costs by detecting and mitigating repetitive failures. Comprehensive coverage of: Organization and management of the maintenance function \* Best practices for maintenance and predictive maintenance \* Engineering and analysis tools \* Maintenance of mechanical, electrical, and facilities equipment

Engineering Maintainability: McGraw Hill Professional

New, global and extended markets are forcing companies to process and manage increasingly differentiated products with shorter life cycles, low volumes and reduced customer delivery times. In today's global marketplace production systems need to be able to deliver products on time, maintain market credibility and introduce new products and services faster than competitors. As a result, a new production paradigm of a production system has been developed and a supporting management decision-making approach simultaneously incorporating design, management, and control of the production system is necessary so that this challenge can be effectively and efficiency met. "Maintenance Engineering and its Applications in Production Systems" meets this need by introducing an original and integrated idea of maintenance: maintenance for productivity. The volume starts with the introduction and discussion of a new conceptual framework based on productivity, quality, and safety supported by maintenance. Subsequent chapters illustrate the most relevant models and methods to plan, organise, implement and control the whole maintenance process (reliability evaluation models and prediction, maintenance strategies and policies, spare parts management, computer maintenance management software – CMMS, and total productive maintenance – TPM, etc.). Several examples of problems supported by solutions, and real applications to help and test the reader's comprehension are included. "Maintenance Engineering and its Applications in Production Systems" will certainly be valuable to engineering students, doctoral and post-doctoral students and also to maintenance practitioners, as well as managers of industrial and service companies.

**MAINTENANCE ENGINEERING AND MANAGEMENT** John Wiley & Sons

Generations of engineers and managers have turned to this popular handbook for expert guidance on maintenance for all types of facilities, including industrial plants, power generating stations, refineries, schools, hospitals, and office buildings. Now revised and updated with 40% new material, the Fifth Edition offers you detailed information on every aspect of maintenance engineering - from new technical advances to maintaining the latest machinery. You'll find practical advice from 55 specialists on the organization and management of the maintenance function ... establishing costs and controls ... maintenance of plant facilities ... sanitation and housekeeping ... maintenance of mechanical and electrical equipment ... and maintenance of service equipment. The Fifth Edition also discusses new ways of using computers to manage maintenance procedures for machinery, physical plant, and fixed support service - and presents all-new material on lubrication, instruments and vibration, and chemical corrosion control and cleaning. Whether you're a plant engineer, facilities manager, or maintenance engineer, this updated handbook will give you the on-the-job information and skills needed to solve virtually any maintenance problem!