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Effective Maintenance Management McGraw Hill Professional

Utilize your assets effectively, safely, and profitably.

Aviation Maintenance Management, Second Edition CRC Press

Now in its second edition and written by a highly acclaimed maintenance professional, this comprehensive and easy-to-understand resource provides a short review of all the major discussions going on in the management of the maintenance function. This revision of a classic has been thoroughly updated to include advances in technology and thinking and is sure to be found useful by maintenance professionals everywhere. It's the perfect reference for any maintenance professional that needs a quick update on any specific area within the subject. Contains five entirely new chapters, including Dealing with Contracts, 5S, Lean Maintenance, PM Optimizing, and Fire Fighting. Contains five entirely new chapters, including Dealing with Contracts, 5S, Lean Maintenance, PM Optimizing, and Fire Fighting. Offers a complete survey of the field, an introduction to maintenance and a review of maintenance management. Provides a manual for cost reduction and a primer for the stockroom. Includes a training regime for new supervisors, managers and planners.

MAINTENANCE ENGINEERING AND MANAGEMENT Industrial Press Inc.

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

Maintenance Planning and Scheduling Handbook John Wiley & Sons

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 Excellence Industrial Press Inc.

This informative resource will aid plant engineers in organizing their maintenance function while

minimizing maintenance activities and costs. It will provide a framework of options allowing maintenance decision makers to select the most successful way for them to manage their specialty. Uptime McGraw Hill Professional

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

Rules of Thumb for Maintenance and Reliability Engineers McGraw Hill Professional

Uptime describes the combination of activities that deliver fewer breakdowns, improved productive capacity, lower costs, and better environmental performance. The bestselling second edition of Uptime has been used as a textbook on maintenance management in several postsecondary institutions and by many companies as the model framework for their maintenance management programs. Following in the tradition of its bestselling predecessors, Uptime: Strategies for Excellence in Maintenance Management, Third Edition explains how to deal with increasingly complex technologies, such as mobile and cloud computing, to support maintenance departments and set the stage for compliance with international standards for asset management. This updated edition reflects a far broader and deeper wealth of experience and knowledge. In addition, it restructures its previous model of excellence slightly to align what must be done more closely with how to do it. The book provides a strategy for developing and executing improvement plans that work well with the new values prevalent in today's workforce. It also explains how you can use seemingly competing improvement tools to complement and enhance each other. This edition also highlights action you can take to compensate for the gradual loss of skills in the current workforce as "baby boomers" retire.

Plant Engineer's Reference Book Gulf Professional Publishing

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, Replacement, and Reliability Industrial Press Inc.

"The premier textbook for learning aircraft maintenance from a management perspective.

Revised and up-dated to include recent technological, certification and maintenance updates"--Provided by publisher.

Handbook of Maintenance Management and Engineering Elsevier

This work sets out to furnish all levels of engineering management with the material necessary to provide cost-effective maintenance, discussing the functional design of products as well as the identification of failure systems that permit scheduled maintenance procedures. This second edition presents information on ISO 9000 requirements, utilities management, the use of bar-coding in maintenance efforts, plant re-arrangement and minor construction, and more.

Engineering Maintenance Management, Second Edition, CRC Press

With its easy-to-read writing style, Productivity and Reliability-Based Maintenance Management provides a strong yet practical foundation on Total Productive Maintenance (TPM). This comprehensive practical guide departs from the wait-failure-emergency repair cycle that plagues many industries today. Instead, this text takes a proactive and productive maintenance approach, focusing on how to avoid failure in the first place.

By using real-world case studies in every chapter, the author reinforces the importance of sound and proactive maintenance practices. The use of end-of-chapter problems and discussion questions helps to solidify concepts presented. Productivity and Reliability-Based Maintenance Management is a powerful educational tool for students as well as maintenance professionals and managers. This volume was previously published under the same title in 2004 by Pearson Education, and has been reprinted with permission through an arrangement with the author.

Maintenance and Reliability Best Practices Purdue University Press

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.

Asset Management Excellence Industrial Press Inc.

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.

CRC Press

A culmination of 15 years of research, teaching, and consulting, this book shares the best practices, mistakes, victories, and essential steps for success which the author has gleaned from working with countless organizations. Unlike other books that only focus on the engineering issues (task lists) or management issues (CMMS), this in-depth resource is the first to give true emphasize to the four aspects of success in preventive maintenance systems--engineering, management, economic, and psychological -- thereby enabling readers to have a balanced view and understanding of what is happening in their organizations. Additionally, it blends concrete actionable steps and structures with the theory behind the steps.

Planning and Control of Maintenance Systems Academic Press

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.

Maintainability CRC Press

In addition to being essential for safe and effective patient care, medical equipment also has significant impact on the income and, thus, vitality of healthcare organizations. For this reason, its maintenance and management requires careful supervision by healthcare administrators, many of whom may not have the technical background to understand all of the relevant factors. This book presents the basic elements of medical equipment maintenance and management required of healthcare leaders responsible for managing or overseeing this function. It will enable these individuals to understand their professional responsibilities, as well as what they should expect from their supervised staff and how to measure and benchmark staff performance against equivalent performance levels at similar organizations. The book opens with a foundational summary of the laws, regulations, codes, and standards that are applicable to the maintenance and management of medical equipment in healthcare organizations. Next, the core functions of the team responsible for maintenance and management are described in sufficient detail for managers and overseers. Then the methods and measures for determining the effectiveness and efficiency of equipment maintenance and management are presented to allow performance management and benchmarking comparisons. The challenges and opportunities of managing healthcare organizations of different sizes, acuity levels, and geographical locations are discussed. Extensive bibliographic sources and material for further study are provided to assist students and healthcare leaders interested in acquiring more detailed knowledge. Table of Contents: Introduction / Regulatory Framework / Core Functions of Medical Equipment Maintenance and Management / CE Department Management / Performance Management / Discussion and Conclusions

The Handbook of Maintenance Management PHI Learning Pvt. Ltd.

This second edition details all productivity and quality methodologies, principles and techniques, and demonstrates how they interact in the three phases of the productivity and quality management triangle (PQMT): measurement, control and evaluation; planning and analysis; and improvement and monitoring. This edition features material on practical strategies for implementing quality programmes, balancing productivity and quality results, resolving quality problems and empowering employees.

Reliability-centered Maintenance CRC Press

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.

Medical Equipment Maintenance CRC Press

Urban water services are building blocks for healthy cities, and they require complex and expensive infrastructure systems. Most of the infrastructure is out of sight and tends to be taken for granted, but an infrastructure financing crisis looms in the United States because the systems are aging and falling behind on maintenance. A road map for public works and utility professionals, Water, Wastewater, and Stormwater Infrastructure Management, Second Edition provides clear and practical guidance for life-cycle management of water infrastructure systems. Grounded in solid engineering and business principles, the book explains how to plan, budget, design, construct, and manage the physical infrastructure of urban water systems. It blends knowledge from management fields such as facilities, finance, and maintenance with information about the unique technical attributes of water, wastewater, and stormwater systems. Addresses how to make a business case for infrastructure funding Demonstrates how to apply up-to-date methods for capital improvement planning and budgeting Outlines the latest developments in infrastructure asset management Identifies cutting-edge developments in information technology applied to infrastructure management Presents a realistic view of how risk management is applied to urban water infrastructure settings Explains the latest maintenance and operations methods for water, wastewater, and stormwater systems The author describes current thinking on best management practices and topics such as asset management, vulnerability assessment, and total quality management of infrastructure systems. Expanded and updated throughout, this second edition reflects the considerable advances that have occurred in infrastructure management over the past ten years. Useful as a reference and a professional development guide, this unique book offers tools to help you lower costs and mitigate the rate shocks associated with managing infrastructure for growth, deterioration, and regulatory requirements. What's New in This Edition The latest infrastructure management and maintenance technologies Information on the inventories of systems and the configuration of infrastructure New design and construction methods such as building information modeling (BIM) New approaches to rate setting, accounting methods, and cost accounting to help you assess the full cost of infrastructure Advances in SCADA systems Expanded coverage of risk management and disaster preparedness Material on the use of GIS in water and sewer management New laws related to infrastructure, including the U.S. EPA's efforts to develop a distribution system rule

Maintenance Engineering Handbook John Wiley & Sons

Completely reorganised and comprehensively rewritten for its second edition, this guide to reliability-centred maintenance develops techniques which are practised by over 250 affiliated organisations worldwide.