Productivity And Reliability Based Maintenance Management

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Asset Maintenance Engineering Methodologies José Manuel Torres Farinha 2018-04-17
The book aims to be reading for asset maintenance management in a perspective of the 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 management adopting data to decision support. It 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 • Parity on integration of EAM/CMMS systems with Internet of Things • Optimum Decision Making in Asset Management Carnero, Maria Carmen 2016-08-24 Asset management is becoming increasingly important to an organization’s strategy, given its effects on cost, production, and quality. No matter the sector, important decisions are made based on techniques and theories that are thought to optimize results. But management models and techniques should help promote effectiveness while reducing risk. Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models. Resolving the problems associated with minimizing uncertainty, this publication outlines a myriad of methodologies, procedures, case studies, and management tools that can help any organization achieve world-class maintenance. This book is ideal for managers, manufacturing engineers, programmers, academics, and advanced management students. 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. The Handbook of Maintenance Management Joel Levitt 2009 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 updated, includes new chapters, 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, 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 estimation for the classroom. Includes a training regime for new supervisors, managers, and planners. Impact Analysis of Total Productive Maintenance José Roberto Díaz-Reza 2018-10-01 This book presents the state of the art in Total Productive Maintenance (TPM) and its benefits. The authors present a survey applied to 368 manufacturing industries in order to determine their level of execution of TPM. Then a series of causal models are presented. For each model, the authors present a measure of the dependency between the critical success factors and the benefits obtained, allowing industry managers to differentiate between essential and non-essential activities. The content also allows students and academics to obtain a theoretical and empirical basis on the importance of TPM as a lean manufacturing tool in the context of industry 4.0. COMPREHENSIVE MAINTENANCE MANAGEMENT A. D. TELANG 2010-02-16 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. The methods of selecting a maintenance system for industrial plants as well as for individual equipment is focused 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. Maintainability & Maintenance Management Joseph D. Patton 2005 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. Maintainability proprietary and reliability-based-maintenance-management 1/6
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organizational aspects of maintainability for projects under development and streamlining maintenance work toward the achievement of specific goals. Demonstrates methods for quantitatively measuring maintainability at every stage of the development process. Shows how to increase effectiveness while reducing life-cycle costs of existing systems or products. Features numerous case studies, sample applications, and practice exercises. Functions equally well as a professional reference and as 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 50% of the overall life-cycle cost. Long-term cost effectiveness is a major competitive advantage that manufacturers simply cannot afford to underestimate. Clearly, new techniques are needed to make it feasible and economical to design for long-term performance. Maintenance has a huge impact on most businesses whether its presence is felt or not. RCM-R(R) addresses the RC method and shortfalls in its application—It modifies the method to consider asset and even failure mode criticality so that rigor is applied only where it is truly needed. It removes (within reason) the sources of concern about RCM being overly rigorous and too labor intensive without compromising on its ability to deliver a tailored failure management program for physical assets sensitive to their operational context and application. RCM-R(R) was developed to leverage on RCM's original success at delivering that outcome. Includes extensive review of the well proven RCM method and what is needed to make it successful in the industrial environment. Links important elements of the RCM method with relevant International Standards for risk management and failure management. Enhances RCM with increased emphasis on statistical analysis, bringing it squarely into the realm of Evidence-Based Asset Management. Includes extensive, experience-based advice on implementing and sustaining RCM-based failure management programs. Reliability Centered Maintenance—Reengineered (RCM-R) Jesus Sifonte 2017

RCM-R(R) addresses the RC method and shortfalls in its application—It modifies the method to consider asset and even failure mode criticality so that rigor is applied only where it is truly needed. It removes (within reason) the sources of concern about RCM being overly rigorous and too labor intensive without compromising on its ability to deliver a tailored failure management program for physical assets sensitive to their operational context and application. RCM-R(R) was developed to leverage on RCM's original success at delivering that outcome. Includes extensive review of the well proven RCM method and what is needed to make it successful in the industrial environment. Links important elements of the RCM method with relevant International Standards for risk management and failure management. Enhances RCM with increased emphasis on statistical analysis, bringing it squarely into the realm of Evidence-Based Asset Management. Includes extensive, experience-based advice on implementing and sustaining RCM-based failure management programs. Reliability Centered Maintenance—Reengineered (RCM-R) Jesus Sifonte 2017

Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis Adiel Teixeira de Almeida 2015-07-01 This book integrates modeling, optimizing, and analyzing methods for determination of risk, reliability, and maintainability in the context of maintenance (RMM). The concepts and foundations related to RMM are considered for this integration with multicriteria approaches. In the book, a general framework for building decision models is presented and illustrated in various chapters by discussing many different decision models related to the RMM context. The scope of the book is related to ways of how to integrate Applied Probability and Decision Making. In Applied Probability, this mainly includes; decision analysis and reliability theory, amongst other topics closely related to risk analysis and maintenance. In Decision Making, it includes a thorough review of the topic of Multi-Criteria Decision Aiding (also known as Multi-Criteria Decision Analysis). In addition to decision analysis, some of the topics related to Mathematical Programming area are briefly considered, such as multiobjective optimization, stochastic dynamic programming, and other techniques applied to the context of RMM. The book addresses an innovative treatment for the decision making in RMM, thereby improving the integration of fundamental concepts from the areas of both RMM and decision making. This is accomplished by presenting an overview of the literature on decision making in RMM. Some pitfalls of decision models when applying them to
RM in practice are discussed and guidance on overcoming these drawbacks is provided. It offers a number of potential solutions that can enable multicriteria decision making in the RRM context, including guidance on choosing an appropriate multicriteria method for a particular problem faced in the RRM context. The book also includes many research advances in these topics. Most of the multicriteria decision models that are described are specific applications that have been influenced by this research and the research from the book. Multicriteria and Multiobjective Models for Risk, Reliability and Maintenance Decision Analysis is implicitly structured in three parts, with 12 chapters. The first part deals with MCDM/A concepts and decision processes. The second part presents the main concepts and foundations of RRM. Finally the third part deals with specific decision problems in the RRM context approached with MCDM/A models.

Outlines and Highlights for Reliability and Maintenance Decision Analysis

Management by Matthew Stephens

Cram101 Textbook Reviews 2010-12-01 Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Textbook Reviews gives all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompany: 9781557535924 .

System Assurances... (http://www.amazon.com/s/ref=nb_sb_noss?url=1%2B2007-08-21) System Assurances: Modeling and Management updates on system assurance and performance methods using advanced analytics and understanding of software reliability growth modeling from today's debugging team's point-of-view, along with information on preventive and proactive measures to support the need for and to efficiently use test resources. The book presents the rapidly growing application areas of systems and software modeling, including intelligent synthetic characters, human-machine interface, menu generators, user acceptance analysis, picture archiving and software systems. Students, research scholars, academicians, scientists and industry practitioners will benefit from this book. It provides better insights into modern related global trends, issues and practices. Provides software reliability modeling, simulation and optimization. Offers methodologies, tools and practical applications of reliability modeling and resources allocation. Presents cost modeling and optimization. The book offers a rich and fresh approach to the study of the subject.

Wonderpedia / NeoPopRealism Archive 2011

Wonderpedia offers the books reviews, while NeoPopRealism Journal publishes news, views and other information additionally to the books reviews. These publications were founded by Nadia MSS in 2007 and 2008, in New York City.

Managing productive maintenance Harilal Xenos 2018-03-05 Managing Productive Maintenance is a detailed guide to improve results through the implementation of best equipment maintenance practices. This book offers a new way of thinking maintenance activity of industrial assets. In this book, professionals of maintenance and production areas will find practical guidance and a simple approach to implement proven methods and techniques that unleash the full value in maintenance management activities in their organizations while bringing about unprecedented levels of operational reliability.

Maintenance, Replacement, and Reliability Andrew K.S. Jardine 2005-09-29 Based on the results of research in physical asset management, Maintenance, Replacement, and Reliability: Theory and Applications introduces students to the tools for making these decisions and how they use these tools. It includes a solid theoretical foundation for these tools, demonstrating applications through various case studies. Firmly rooted in reality, the applications covered relate to areas such as food processing, the military, mining, transportation, steel, and petrochemical industries. Ideal for classroom use, this text features supplementary software that can be downloaded from the CRC Web site.

The downloadable educational versions of software packages include: OREST, SMS, EXAKT for CBM optimization, PERDEC, Workshop Simulator, Crew Size Optimizer, and Wiebull3Soft. This book can be used as a textbook for a one-semester senior undergraduate or postgraduate course on maintenance decision analysis. It provides a comprehensive and coherent treatment of the field

Optical coherence tomography is a light-based imaging technology that allows for stable then OCT can direct percutaneous intervention (angioplasty or stenting). OCT can differentiate between plaques that are stable and unstable. If the plaques are coronary artery disease. OCT has the capability to identify coronary plaque and to reduce or eliminate costly downtime Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a comprehensive understanding of good practice in maintenance. Total Productive Maintenance is the 2006-01-21 Reduce or eliminate costly downtime. Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a comprehensive understanding of good practice in maintenance. Total Productive Maintenance is the basis for improving reliability and performance of industrial assets. It makes the original method that was developed to enhance flight safety applicable in a broad range of industries where asset criticality ranges from high to low. RCM-R® is focused on the science of failures and what must be done to enable long-term sustainably reliable operations. If used correctly, RCM-R® is the first step in delivering fewer breakdowns, more productive capacity, lower costs, safer operations and improved performance. Maintenance has a huge impact on most businesses whether its presence is felt or not. RCM-R® ensures that the right work is done to guarantee there are as few nasty surprises as possible that can harm the business in any way. RCM-R® was developed to leverage RCM's success at delivering effectiveness while addressing the concerns of the industrial market. RCM-R® addresses the RCM method and shortfalls in its application -- It modifies the method to consider asset and even failure mode criticality so that rigor is applied only where it is truly needed. It removes (within reason) the sources of concern about RCM being overly labor intensive by compromising on its ability to deliver a tailored failure management program for physical assets sensitive to their operational context and application. RCM-R® also provides its practitioners with standard based guidance for determining maintenance activities that are tailored to their criticality outcome. Includes extensive review of the well proven RCM method and what is needed to make it successful in the industrial environment Links important elements of the RCM method with relevant International Standards for risk management and failure management. Enhances RCM with increased emphasis on strategic analysis, bringing it squarely into the realm of Evidence Based Asset Management. Includes extensive, experience based advice on implementing and sustaining RCM based failure management programs. Total Productive Maintenance Steve Borris 2006-01-21 Reduce or eliminate costly downtime. Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a comprehensive understanding of good practice in maintenance.

Reliability-centered Maintenance John Montmay 2001 Comprehensive and completely rewritten for its second edition, this guide to reliability-centered maintenance develops techniques which are practised by over 250 affiliated organisations worldwide.

Optical coherence tomography is a light-based imaging technology that allows for stable then OCT can direct percutaneous intervention (angioplasty or stenting). OCT can differentiate between plaques that are stable and unstable. If the plaques are coronary artery disease. OCT has the capability to identify coronary plaque and to reduce or eliminate costly downtime Short on theory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a comprehensive understanding of good practice in maintenance. Total Productive Maintenance is the basis for improving reliability and performance of industrial assets. It makes the original method that was developed to enhance flight safety applicable in a broad range of industries where asset criticality ranges from high to low. RCM-R® is focused on the science of failures and what must be done to enable long-term sustainably reliable operations. If used correctly, RCM-R® is the first step in delivering fewer breakdowns, more productive capacity, lower costs, safer operations and improved performance.
ophthalmology, where it soon became the golden standard for the assessment of retinal processes. The interest of researchers and clinicians in the field of cardiovascular disease, since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo. With over 1.1M Americans having a heart attack this year because of unstable plaque rupture, OCT may have an increasingly important role in the early diagnosis of coronary artery disease. This unique unification of the reader the basics background to OCT and its role in the diagnosis and management of coronary artery disease. The Handbook of Optical Coherence Tomography in Cardiovascular Research introduces the cardiovascular application of this technology. Clinicians, biomedical engineers and physicists, in the field of cardiovascular OCT application in a multidisciplinary approach. The handbook offers the readers a concise overview on the current state of the art of vascular OCT imaging and sheds light on a variety of exciting new developments. The physics, technical principles of OCT and its application in a broad spectrum of cardiovascular research areas are summarized by various specialists. The potential of OCT in peripheral and coronary arteries and in developmental cardiology are described. Each research area is introduced by a clinical expert in the field followed by discussion of different aspects from an engineering, biomedical, and clinical point of view. The perspective. Specifically, the current capabilities for plaque characterization, detection of vulnerable plaque, guidance of intervention procedures, Doppler-assessment, and molecular contrast imaging are being described. The Handbook of Optical Coherence Tomography in Cardiovascular Research and clinicians involved in the field of atherosclerosis. The summary of basic physics, engineering solutions, pre-clinical and clinical application covers all relevant aspects and will be a valuable reference source.

**Residual Life Prediction and Optimal Maintenance Decision for a Piece of Equipment**

Changhua Hu 2021-07-30 This book addresses remaining life prediction and predictive maintenance of equipment. It systematically summarizes the key research findings made by the author and his team and focuses on how to create equipment performance degradation and residual life prediction models based on the performance monitoring data produced by currently used and historical equipment. Some of the theoretical results covered here have been used to make remaining life predictions and maintenance-related decisions for aerospace products such as gyros and platforms. Given its scope, the book offers a valuable reference guide for those pursuing theoretical or applied research in the areas of fault diagnosis and fault-tolerant control, remaining life prediction, and maintenance decision-making.

**Reliable Maintenance Planning, Estimating, and Scheduling**

Ralph Peters 2014-11-19 Written specifically for the oil and gas industry, Reliable Maintenance Planning, Estimating, and Scheduling provides maintenance managers with the tools and techniques to create a manageable maintenance program that will save money and prevent costly facility shutdowns. The ABCs of work identification, planning, prioritization, scheduling, and execution are explained. The objective is to provide the capability to identify, select and apply maintenance interventions that assure an effective maintenance management, while maximizing equipment performance, value creation and opportunity and effective decision making. The book provides a pre- and post- self-assessment that will allow for measure competency improvement. Maintenance Managers and Engineers receive an expert guide for developing processes including: The nuts and bolts of the planning, estimating, and scheduling process for oil and gas facilities. Step-by-step maintenance guide will provide long-term, results-based operational services Case studies based on the oil and gas industry.

**Reliability-Centered Maintenance**

John Moubray 2016-01-01 Reliability-centred Maintenance is a process used to determine - systematically and scientifically - what must be done to ensure that physical assets continue to do what their users want them to do. Widely recognised by maintenance professionals as the most cost-effective way to develop world-class maintenance strategies, RCM leads to rapid, sustainable and substantial improvements in product quality, safety and environmental integrity. The author and his associates have helped users to apply RCM and its more modern derivative, RCM2, on more than 600 sites in 32 countries. These sites include all types of manufacturing (especially automobile, steel, paper, petrochemical, pharmaceutical and food manufacturing) and utilities (water, gas and electrical, armed forces, building services, mining telecommunications and transport. This book summarises this experience in the form of an authoritative and completely practical description of how RCM2 is and how it should be applied. The second edition has been completely revised and updated, incorporating the most recent developments in this field. It includes more than 100 pages of new material on condition monitoring, the analysis of functions and failures, human error, the management of risk, failure-finding and the measurement of maintenance performance. This book will be of immense value to maintenance managers, and to anyone else concerned with the reliability and availability of critical infrastructure and environmental integrity. Its straightforward, plant-based approach makes the book especially well suited to use in centres of higher education. John Moubray, BSc (Mech Eng), spent his early career developing and implementing maintenance management systems, first as a plant engineer then as a consultant. In more recent years he has worked in the industrial application of RCM under the guidance of the late F Stanley Nowlan. In 1986, he set up Aladon Ltd, a consulting and training company based in Lutterworth, UK. He is currently managing director of Aladon, which specializes exclusively in the development, implementation and application to physical assets.
Productivity and Reliability-Based Maintenance Management

Integrated Maintenance Planning in Manufacturing Systems

Umar M. Al-Turki

2014-04-25

This book introduces the concept of integrated planning for maintenance and production taken into account quality and safety for high global socio-economic impact. It provides insight into the planning process at a global level starting from the business level and ending with the operational level where the plan is implemented and controlled.

The Competitive Edge

National Research Council

1991-02-01

To maintain competitiveness in the emerging global economy, U.S. manufacturing must rise to new standards of product quality, responsiveness to customers, and process flexibility. This volume presents a concise and well-organized analysis of new research directions to achieve these goals. Five critical areas receive in-depth analysis of present practices, needed improvement, and research priorities:

- Advanced engineered materials that offer the prospect of better life-cycle performance and other gains.
- Equipment reliability and maintenance practices for better returns on capital investment.
- Rapid product realization techniques to speed delivery to the marketplace.
- Intelligent manufacturing control for improved reliability and greater precision.
- Building a workforce with the multidisciplinary skills needed for competitiveness.

This sound and accessible analysis will be useful to manufacturing engineers and researchers, business executives, and economic and policy analysts.

Safety and Reliability – Safe Societies in a Changing World

Stein Haugen

2018-06-15

Safeg and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include:

- Mathematical methods in reliability and safety
- Risk assessment
- Risk management
- System reliability
- Uncertainty analysis
- Digitalization and big data
- Prognostics and system health management
- Occupational safety
- Accident and incident modeling
- Maintenance modeling and applications
- Simulation for safety and reliability analysis
- Dynamic risk and barrier management
- Organizational factors and safety culture
- Human factors and human reliability
- Resilience engineering
- Structural reliability
- Natural hazards
- Security
- Economic analysis in risk management

Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

Equipment Management in the Post-Maintenance Era

Kern Peng

2018-10-08

Recent advancements in information systems and computer technology have led to a transformation in equipment and robotic technology that have permanently changed the characteristics of manufacturing equipment. Equipment Management in the Post-Maintenance Era: A New Alternative to Total Productive Maintenance (TPM) introduces a new way of thinking to help high-tech organizations manage an increasingly complex equipment base. It also facilitates the fundamental understanding of equipment management those in traditional industries will need to prepare for the emerging microchip era in equipment. Kern Peng shares insights gained through decades of managing equipment performance. Using a systems model to analyze equipment management, he introduces alternatives in equipment management that are currently gaining momentum in high-tech industries. The book highlights the fundamental internal flaw in maintenance organizational setup, presents new approaches to replace maintenance functional setup, and illustrates a time-tested transformation and implementation process to help transition your organization from the maintenance era to the new post-maintenance era. Breaks down the history of equipment into five phases Provides a clear understanding of equipment management fundamentals Introduces alternatives in equipment management beyond the mainstream principles of maintenance management The book examines maintenance management logistics, including planning and budgeting, training and people development, customer services and management, vendor management, and inventory management. Supplying a comprehensive look at the history of equipment management, it analyzes current maintenance practice and details approaches that can significantly improve the effectiveness and efficiency of your equipment management well into the future.