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A Maintenance Management Framework for Municipal Buildings in Developing Economies

The Maintenance Management Framework

Capability Maturity Model for Maintenance Management

Maintenance Strategy

Building Maintenance Processes and Practices

Advances in Asset Management: Strategies, Technologies, and Industry Applications

Modern Maintenance Management - Concepts and Cases

Maintenance Management in Network Utilities

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Handbook of Maintenance Management and Engineering

Maintenance Excellence

E-maintenance

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ASIA JOCELYN

A Maintenance Management Framework for Municipal Buildings in Developing Economies

Industrial Press Inc.
 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 mai

The Maintenance Management

Framework 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.

Capability Maturity Model for Maintenance Management John Wiley

& Sons

This book gathers selected peer-reviewed papers from the 14th World Congress on Engineering Asset Management (WCEAM), which was held in Singapore on 28–31 July 2019, as well as papers presented during the 1st WCEAMOnline event which focused on the ramifications of Covid-19 on infrastructure systems. This book covers a wide range of topics in engineering asset management, including: asset management services provisioning; servitization; decision-making; asset management systems; industrial Internet of things; and vulnerability and resilience of infrastructure systems. The breadth and depth of these state-of-the-art, comprehensive proceedings make them an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students. *Maintenance Strategy* Springer Science & Business Media
 “The Maintenance Management Framework” describes and reviews the concept, process and framework of modern

maintenance management of complex systems; concentrating specifically on modern modelling tools (deterministic and empirical) for maintenance planning and scheduling. It will be bought by engineers and professionals involved in maintenance management, maintenance engineering, operations management, quality, etc. as well as graduate students and researchers in this field. Building Maintenance Processes and Practices GRIN Verlag
 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. Advances in Asset Management: Strategies, Technologies, and Industry Applications CRC Press
 Engineering Asset

Management discusses state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management (WCEAM). It is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering such topics as asset condition monitoring and intelligent maintenance; asset data warehousing, data mining and fusion; asset performance and level-of-service models; design and life-cycle integrity of physical assets; deterioration and preservation models for assets; education and training in asset management; engineering standards in asset management; fault diagnosis and prognostics; financial analysis methods for physical assets; human dimensions in integrated asset management; information quality management; information systems and knowledge management; intelligent sensors and devices; maintenance strategies in asset management; optimisation decisions in

asset management; risk management in asset management; strategic asset management; and sustainability in asset management.

Modern Maintenance Management - Concepts and Cases CRC Press

eMaintenance: Essential Electronic Tools for Efficiency enables the reader to improve efficiency of operations, maintenance staff, infrastructure managers and system integrators, by accessing a real time computerized system from data to decision. In recent years, the exciting possibilities of eMaintenance have become increasingly recognized as a source of productivity improvement in industry. The seamless linking of systems and equipment to control centres for real time reconfiguring is improving efficiency, reliability, and sustainability in a variety of settings. The book provides an introduction to collecting and processing data from machinery, explains the methods of overcoming the challenges of data collection and processing, and presents tools for data driven condition monitoring and decision making. This is a groundbreaking handbook

for those interested in the possibilities of running a plant as a smart asset. Provides an introduction to collecting and processing data from machinery Explains how to use sensor-based tools to increase efficiency of diagnosis, prognosis, and decision-making in maintenance Describes methods for overcoming the challenges of data collection and processing

Maintenance Management in Network Utilities CRC Press

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and

efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management—Explore Google's best practices for training, communication, and meetings that your organization can use

Sustainable Construction in the Era of the Fourth Industrial Revolution "O'Reilly Media, Inc."

E-maintenance is the synthesis of two major trends in today's society: the growing importance of maintenance as a key technology and the rapid development of information and communication technology. E-maintenance gives the reader an overview of the possibilities offered by new and advanced

information and communication technology to achieve efficient maintenance solutions in industry, energy production and transportation, thereby supporting sustainable development in society. Sixteen chapters cover a range of different technologies, such as: new micro sensors, on-line lubrication sensors, smart tags for condition monitoring, wireless communication and smart personal digital assistants. E-maintenance also discusses semantic data-structuring solutions; ontology structured communications; implementation of diagnostics and prognostics; and maintenance decision support by economic optimisation. It includes four industrial cases that are both described and analysed in detail, with an outline of a global application solution. E-maintenance is a useful tool for engineers and technicians who wish to develop e-maintenance in industrial sites. It is also a source of new and stimulating ideas for researchers looking to make the next step towards sustainable development.

Software Maintenance

Management Springer Scientific Essay from the year 2011 in the subject Business economics - Business Management, Corporate Governance, grade: 19,5/20, University of Rennes 1, language: English, abstract: Maintenance management and optimization of maintenance is getting more and more important for a large number of companies. The use of automated machines and equipment in order to produce goods is very common today; hence companies have to rely on reliable machines which are available and working 100% of the time. In order to attain a flawless working factory, maintenance management is crucial. However companies cannot hope that the decisions they make concerning maintenance management are optimal and they start therefore to use decision support systems based on optimization methods. Also maintenance management is very complex and a lot of different decisions have to be made, like defining maintenance intervals, personal planning, when to buy spare parts, when to replace equipment etc.

It is easier for companies to base their decisions on a mathematical program, and therefore the use of maintenance management optimization models arises. Optimization models proved to be very advantageous in other sectors, so it was just a matter of time before optimization methods were ported to maintenance management. Problematic in the case of maintenance optimization are the very specific maintenance problems resulting in a large number of different maintenance optimization models. It is consequently very difficult to get a good overview about the different models and their application. R. Dekker, who has worked a lot on maintenance optimization and on operations research in maintenance management wrote a paper about maintenance optimization methods and their application, 'Application of maintenance optimization models: a review and analysis'. It summarizes maintenance management in general, gives a brief history of maintenance management, describes different optimization methods, their practical a

Production and Operations Analysis

ACCO

This book promotes and describes the application of objective and effective decision making in asset management based on mathematical models and practical techniques that can be easily implemented in organizations. This comprehensive and timely publication will be an essential reference source, building on available literature in the field of asset management while laying the groundwork for further research breakthroughs in this field. The text provides the resources necessary for managers, technology developers, scientists and engineers to adopt and implement better decision making based on models and techniques that contribute to recognizing risks and uncertainties and, in general terms, to the important role of asset management to increase competitiveness in organizations.

Reliability, Risk, and Safety, Three Volume Set
Springer

Bridge Maintenance, Safety, Management and Life-Cycle Optimization contains the lectures and papers presented at

IABMAS 2010, the Fifth International Conference of the International Association for Bridge Maintenance and Safety (IABMAS), held in Philadelphia, Pennsylvania, USA from July 11 through 15, 2010. All major aspects of bridge maintenance, s
16th WCEAM Proceedings
Springer Science & Business Media

This book focuses on the introduction of new and modern maintenance management frameworks of assets in the electricity & gas network sector and more specifically, on electricity networks for distribution. The author describes methodologies for developing and implementing maintenance management maturity models, using case studies to show how these have been applied. These maturity models are discussed as part of an overarching, multi-disciplinary organizational maintenance management professionalization framework. This book adds a new dimension to the well-known Reliability Centered Maintenance (RCM) method, by incorporating failure modes via multiple scenarios into business

values, by means of statistical risk calculation methods. The author demonstrates a method called Utility Risk Linked RCM, which uses a statistical tool to develop failure models which can be used to predict future failure behavior of assets in relation to corporate business values. This new method is a practical, structured and comprehensive framework for assessing risk based maintenance policies. The book also proposes a condition monitoring framework that can be used as a guide to assist asset managers in identifying the relationship between failure modes, ageing processes to select amongst condition monitoring regimes.

A Maintenance Management Framework for Municipal Buildings in Developing Economies
Springer Nature

This book introduces readers to essential strategies, practices, and benchmarking for asset maintenance in operations intensive industries. Drawing on a case study from the oil and gas sector, it offers a methodology and practical solutions to help maintenance practitioners select and formulate an

asset maintenance strategy, and to establish best maintenance practices at an organizational level using the frameworks developed here. It is intended for industry practitioners, young maintenance professionals, and students of engineering management who aspire to a career in operations intensive industries.

Risk-Based Maintenance for Electricity Network Organizations

Simon and Schuster
In order to satisfy the needs of their customers, network utilities require specially developed maintenance management capabilities. Maintenance Management information systems are essential to ensure control, gain knowledge and improve-decision making in companies dealing with network infrastructure, such as distribution of gas, water, electricity and telecommunications. Maintenance Management in Network Utilities studies specified characteristics of maintenance management in this sector to offer a practical approach to defining and implementing the best

management practices and suitable frameworks. Divided into three major sections, Maintenance Management in Network Utilities defines a series of stages which can be followed to manage maintenance frameworks properly. Different case studies provide detailed descriptions which illustrate the experience in real company situations. An introduction to the concepts is followed by main sections including: • A Literature Review: covering the basic concepts and models needed for framework design, development and implementation. • Framework Design and Definition: developing the basic pillars of network utilities maintenance management framework. • Performance Evaluation & Maturity: focusing on the reliability concept and maturity models from different viewpoints. By establishing basic foundations for creating and maintaining maintenance managements strategies, Maintenance Management in Network Utilities acts a practical handbook for all professionals in these companies and across areas such as network development, operations

management and marketing.

After-sales Service of Engineering Industrial Assets Springer

Many companies view maintenance as the last controllable function through which they have an opportunity to reduce costs. However, arbitrarily reducing the maintenance budget can lead to lower levels of operating capacity and reliability. This book provides an introduction to the concept of maintenance excellence and looks at all the distinct forms of maintenance. It examines the role of maintenance in minimizing the risk of safety or environmental incidents, adverse publicity and loss of profitability. It also discusses risk reduction tools and explains their applicability to specific situations, thereby helping one select the tool that best fits their own needs and circumstances. The Maintenance Management Framework describes and reviews the concept, process and framework of modern maintenance management of complex systems, concentrating specifically on modern modeling tools for maintenance planning and scheduling. It

presents a new perspective of maintenance management by focusing on the course of maintenance actions, presenting a structure that ensures proper support for current maintenance managers, clarifying the functionality that is required from information technology when applied to maintenance and the functions of modern maintenance engineering and creating a set of practical models for maintenance management planning and scheduling. The discussion of all these issues is supported through the use of case studies. This book provides the reader with a concise yet informative description of all the various forms of maintenance management and how to go about organizing those elements in a plant or facility. It also provides the tools needed to enhance effectiveness and efficiency in each kind of maintenance.

Handbook of Maintenance Management and Engineering Academic Press

The aim of this book is to cover various aspects of the Production and

Operations Analysis. Apart from the introduction to basic understanding of each topic, the book will also provide insights to various conventional techniques as well as, various other mathematical and nature-based techniques extracted from the existing literature. Concepts like smart factories, intelligent manufacturing, and various techniques of manufacturing will also be included. Various types of numerical examples will also be presented in each chapter and the descriptions will be done in lucid style with figures, point-wise descriptions, tables, pictures to facilitate easy understanding of the subject.

Maintenance Excellence Springer Nature

This book is designed to be an inclusive for the best practice approach to building maintenance management, where the processes, procedures and operational systems meet a high standard of professional and academic competence. It offers a different perspective on building maintenance management by presenting the schematic building maintenance

value chain model and it's implementation in Malaysian university buildings. The findings show an improvement to building performance, lower maintenance cost, building sustainability and increased maintenance service user satisfaction. The learning outcomes and summaries provided for each chapter and the extensive use of tables and figures add to the readability of the text. Though the book is based on data from Malaysia, it is useful for a much wider audience, and the informal writing style makes it an interesting reference source. This book is valuable for readers who are practitioners, professionals and for academic institutions that offer courses in the building field, including architecture, quantity surveying, civil engineering, building and facility management, property management, real estate. It will also be of interest to governments and others involved in the construction industry.

E-maintenance AHFE International

In order to satisfy the needs of their customers, network utilities require specially developed

maintenance management capabilities. Maintenance Management information systems are essential to ensure control, gain knowledge and improve decision making in companies dealing with network infrastructure, such as distribution of gas, water, electricity and telecommunications. Maintenance Management in Network Utilities studies specified characteristics of maintenance management in this sector to offer a practical approach to defining and implementing the best management practices and suitable frameworks. Divided into three major sections, Maintenance Management in Network Utilities defines a series of stages which can be followed to manage maintenance frameworks properly. Different case studies provide detailed descriptions which

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development, operations management and marketing. Cases on Optimizing the Asset Management Process CRC Press Considering maintenance from a proactive, rather than reactive, perspective, Maintenance Excellence details the strategies, tools, and solutions for maximizing the productivity of physical assets—focusing on profitability potential. The editors address contemporary concerns, key terms, data requirements, critical methodologies, and essential mathematical needs. They present maintenance in a business context, review planning, measurement, feedback, and techniques related to cost, efficiency, and results, and summarize applications of tools and software from statistics and neural networks to cost-optimized models.

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