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Total Productive Maintenance Second Edition *Productivity and Reliability-Based Maintenance Management, Second Edition* **Total Productive Maintenance** Lean Production Simplified, Second Edition *Impact Analysis of Total Productive Maintenance* Productivity and Reliability-Based Maintenance Management, Second Edition Asset Management Excellence **Principles And Practice Of Total Productive Maintenance Planning and Control of Maintenance Systems** *COMPREHENSIVE MAINTENANCE MANAGEMENT* **Managing Maintenance Resources Factors Affecting the Implementation of a Total Productive Maintenance System (TPM)** *NCMS Total Productive Maintenance* **An Introduction to Predictive Maintenance Total Productive Maintenance and the Impact of Each Implemented Pillar in the Overall Equipment Effectiveness** Gemba Kaizen: A Commonsense Approach to a Continuous Improvement Strategy, Second Edition **Optical Coherence Tomography in Cardiovascular Research Operations Management** *Design and Modeling of Mechanical Systems - II* **Surface Mining, Second Edition** Equipment Management in the Post-Maintenance Era *Complex System Maintenance Handbook* **Replacement Models with Minimal Repair Proceedings on 18th International Conference on Industrial Systems – IS'20 Maintenance Organization and Systems Efficient Decision Support Systems** *Introduction to Maintenance Engineering* **Operations Research Applications**

and Challenges of Maintenance and Safety Engineering in Industry 4.0 Proceedings of the XIV INTERNATIONAL SYMPOSIUM SYMORG 2014 *Total Productive Maintenance Innovations in Competitive Manufacturing* **Managing Maintenance Resources Anatomy of a Park** Engineering Asset Management Handbook of Maintenance Management and Engineering *Equipment Management in the Post-maintenance Era* Lean Six Sigma Green Belt Lean Six Sigma Yellow Belt *Operations and Supply Chain Management*

The Fourth Edition of Anatomy of a Park features an expanded view of the practice, the business, and the administration of park design, with information gathered from interviews with professionals from both the United States and abroad. Highlights include:
• Three-dimensional site plans and topographic maps with helpful hints for interpretation of the planning and construction documents shared by designers and clients.
• Expanded coverage of the broad issues of ecology-oriented "green design" and the philosophy of sustainable practice.
• The economics of park design: getting more park for your money and getting more money for your park.
• A richly illustrated discussion on the right and wrong ways to design seating arrangements
• The latest developments in the linkage of pervious pavement with storm-water management, along with issues of survival for plants in dense urban environments.
• Comprehensive guidelines for the client seeking a consulting designer and the designer seeking a client, from the earliest initiation to the finished product.
• Increased examples and discussion of the relationships and purposes of the elements of park design, as well as experts' opinions of what makes a good park versus a great park.
• Essential coverage of ways to maximize a park budget,

including the grant application process, sponsorship, partnerships, and volunteerism. Russell and Taylor's Operations and Supply Chain Management, 10th Edition is designed to teach students understand how to create value and competitive advantage along the supply chain in a rapidly changing global environment. Beyond providing a solid foundation, this course covers increasingly important OM topics of sustainability, corporate social responsibility, global trade policies, securing the supply chain, and risk and resilience. Most importantly, Operations Management, Tenth Edition makes the quantitative topics easy for students to understand and the mathematical applications less intimidating. Appropriate for all business students, this course takes a balanced approach to the foundational understanding of both qualitative and quantitative operations management processes. Managing Maintenance Resources recognizes that re-engineering a maintenance organization is a complex problem involving many decisions, such as whether to centralize resources, to enter into contractor alliances, and adopt flexible working - each of which are influenced by conflicting factors. This book shows how to reduce the complexity of organizational design through a unique way of modeling the maintenance-production organization, along with organizational guidelines to provide solutions to identified problems. It is the second of three stand-alone companion books with the aim of providing better understanding of maintenance operations. All three books are used in their turn to underpin firstly the formulation of strategy (Strategic Maintenance Planning 0756069926), secondly of the design of the appropriate organization (Maintenance Resources 0750669934), and finally the creation of the necessary systems (Maintenance Systems and Documentation 0750669942) for the ultimate Plant Maintenance Set (0750669950). â€¢ The second of three stand-alone companion books, focusing on reducing the complexity of organizational design â€¢ Provides a unique way of modeling

maintenance-production organization that facilitates the identification of organizational problems, along with guidelines to provide effective solutions â€¢ With numerous review questions, exercises and case studies - selected to ensure coverage across a wide range of industries including processing, mining, food, power generation and transmission During the eight years since the publication of Maintenance Excellence: Optimizing Equipment Life-Cycle Decisions the business environment has changed drastically. Globalization, consolidation, and changes in technology challenge asset management and maintenance professionals to be more efficient. Globalization and consolidation have been particularly instrumental in the changes in maintenance standards, approaches, and the use of technology to become more efficient and cost effective. Reflecting all this and more, the second edition has been renamed: Asset Management Excellence: Optimizing Equipment Life-Cycle Decisions. New in the Second Edition: Two new chapters on Maintenance Management Fundamentals Coverage of leadership issues, the implementation of new processes, and change management Discussion of the design stage and key factors for successful implementation Understanding the dynamic influences and optimization of spares management Updated case studies Introduction to new software packages that optimize a variety of maintenance and replacement decisions Although there have been patterns and trends that have emerged around the world in asset management, the root principles are the same—personnel with tools go out to address the needs of maintaining assets. However, many of the tools, technologies, and thought processes have evolved and matured to allow a rethinking of the deeper maintenance processes. For this edition, a new set of authors and contributors have revisited the content, updated information, and added new content based on the passage of time, changes in thinking, and the introduction and improvement in technologies. This series is directed to diverse managerial professionals who

are leading the transformation of individual domains by using expert information and domain knowledge to drive decision support systems (DSSs). The series offers a broad range of subjects addressed in specific areas such as health care, business management, banking, agriculture, environmental improvement, natural resource and spatial management, aviation administration, and hybrid applications of information technology aimed to interdisciplinary issues. This book series is composed of three volumes: Volume 1 consists of general concepts and methodology of DSSs; Volume 2 consists of applications of DSSs in the biomedical domain; Volume 3 consists of hybrid applications of DSSs in multidisciplinary domains. The book is shaped upon decision support strategies in the new infrastructure that assists the readers in full use of the creative technology to manipulate input data and to transform information into useful decisions for decision makers. The profitability of any industry, in any technological sector - power, process, manufacturing, mineral extraction, transport, communication, etc - will be profoundly influenced by the reliability and performance of the plant which it uses. It is therefore vital that all possible measures are taken to maximise the productivity in use, and to minimise the maintenance costs and the downtime, of that plant. This book explains, in a clear and concise manner, the various organization structures that are needed for doing just that, the information systems with which those structures will need to be resourced, and the steps that will have to be taken in order to bring those structures and systems into being. The author, Anthony Kelly, an experienced international consultant and lecturer on this subject, calls his approach BUSINESS-CENTRED MAINTENANCE (BCM) because it springs from, and is driven by, the identification of business objectives, which are then translated into maintenance objectives and which underpin the maintenance strategy formulation. For the first time maintenance management is analysed from the perspective of the whole company and thus

makes sense not only technologically but also in economic and business terms. Complete guide to maintenance from a whole-company perspective Best-selling and world-renowned author Complementary to RCM (Moubray) & TPM (Wilmott) This book offers a collection of original peer-reviewed contributions presented at the 6th International Congress on Design and Modeling of Mechanical Systems (CMSM'2015), held in Hammamet, Tunisia, from the 23rd to the 25th of March 2015. It reports on both recent research findings and innovative industrial applications in the fields of mechatronics and robotics, dynamics of mechanical systems, fluid structure interaction and vibroacoustics, modeling and analysis of materials and structures, and design and manufacturing of mechanical systems. Since its first edition in 2005, the CMSM Congress has been held every two years with the aim of bringing together specialists from universities and industry to present the state-of-the-art in research and applications, discuss the most recent findings and exchange and develop expertise in the field of design and modeling of mechanical systems. The CMSM Congress is jointly organized by three Tunisian research laboratories: the Mechanical Engineering Laboratory of the National Engineering School of Monastir; the Mechanical Laboratory of Sousse, part of the National Engineering School of Sousse; and the Mechanical, Modeling and Manufacturing Laboratory at the National Engineering School of Sfax. The definitive, fully up-to-date guide to continuous improvement in the workplace "An updated version of a classic book that shares a wealth of new healthcare examples and case studies from around the world. The methods in this book will help you improve quality and safety, reduce waiting times, and improve the long-term financial position of your organization. Highly recommended!" --Mark Graban, author of Lean Hospitals and coauthor of Healthcare Kaizen "Every business faces the iron triangle of quality, cost, and delivery. Conventional thinking claims you cannot have all three. Not only does Mr. Imai turn that

thinking on its head, but he shows you exactly how to do it." -- Matthew E. May, author of The Elegant Solution and The Laws of Subtraction "Masaaki Imai has done it again. The second edition of his famous book not only describes all the tools necessary for any type of business to implement a lean strategy but also includes a large number of excellent case studies." -- Art Byrne, author of The Lean Turnaround Written by Masaaki Imai, pioneer of modern business operational excellence and founder of the Kaizen Institute, Gemba Kaizen, Second Edition is an in-depth revision of this renowned, bestselling work. The book reveals how to implement cost-effective, incremental improvements in your most critical business processes. Global case studies from a wide range of industries demonstrate how gemba kaizen has been successfully used to: Maximize capacity and reduce inventory at Unga Limited, one of Kenya's largest flour-milling operations Change the IT culture at Achmea, a large European insurance firm Exceed customer expectations at Walt Disney World in the United States Improve quality at Inoue Hospital in Japan Transform retail processes at Sonae MC, Portugal's largest employer Practice daily kaizen at Tork Ledervin, a weaving plant in Brazil Stamp out muda at Sunclipse, an industrial packaging distributor in the United States Manage quality improvement by total workforce involvement at Xuji Group Corporation, an electrical manufacturer in China Implement gemba kaizen at many other companies worldwide To thrive in today's competitive global economy, organizations need to operate more effectively and profitably than ever before. Developing problem solvers, increasing productivity, improving quality, and reducing waste are essential success factors. Proven strategies for achieving these goals are included in this pioneering guide. This comprehensive resource offers detailed coverage of important gemba kaizen topics, including: Quality, cost, and delivery in the gemba The five steps of workplace organization Identifying and eliminating muda--any non-value-adding activity Visual

management Supervisors' roles in the lean workplace Gemba managers' roles and accountability in sustaining high performance Just-in-time and total flow management The CEO’s role in leading a kaizen culture The methods presented in Gemba Kaizen, Second Edition reveal that when management focuses on implementing kaizen (incremental, continuous improvement) in the gemba (the worksite) unique opportunities can be discovered for increasing the success and profitability of any organization. Total Productive Maintenance (TPM) focuses on maximizing equipment performance, establishing a productive maintenance system that optimizes its life cycle, contributing for the continuous improvement and availability, avoiding early equipment wear, being necessary that the maintenance works on preventing with managerial focus. In this study, the impact of each implemented TPM pillar in the Overall Equipment Effectiveness (OEE) metric was analyzed, evaluating the performance resulting from each implemented pillar. The approach of the research is predicated on the Survey method, based on the intentional sample of the industrial companies in Brazil, which implemented the method. The results evidenced that the Focused Improvement and Planned Maintenance pillars were implemented in most of the respondent companies, being part of different segments, such as metallurgical, food, textile, auto-parts, household appliances, school material, automobile and chemical products. The OEE metric showed the TPM evolution comparing the result at the beginning of the implemented activities and at the end. Other important observation was in the implementation of the pillars, when compared with the suggested literature, a change of priority and sequence occurred. The Autonomous Maintenance pillar was suggested as the second pillar to be implemented. It is implemented only after the Training and Education pillar, which is the fourth suggested pillar. The other pillars were implemented in the original sequence indicated by literature. This SME classic is both a

reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today--topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book's nine chapters include: Introduction, Exploration and Geology Techniques, Ore Reserve Estimation, Feasibility Studies and Project Financing, Planning and Design of Surface Mines, Mine Operations, Mine Capital and Operating Costs, Management and Organization, and Case Studies. The book is fully indexed. 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. 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. Total Productive Maintenance Second EditionBy Terry Wireman 2004, 224pp, illus., ISBN: 978-0-8311-0210-4, $46.95Written for anyone who is considering implementing or currently using TPM or looking for ways of improving their current process, the second edition focuses on the financial approach to the subject-a methodology that produces quantifiable results allowing a TPM program to be sustainable. Completely revised and updated, this classic

reference is the most flexible and comprehensive approach documented to date. Additionally, it offers a significant amount of new material, such as: 1. Various case studies that show how to explain the value of OEE to everyone in the organization from the senior executive to the shop floor personnel. 2. OEE discussions showing how to dollarize results and present the financial terms to executive financial personnel. 3. A clarification of the goals and objectives of TPM, allowing TPM Champions to clearly present a TPM business case to their organizations.4. The pitfalls that may be encountered during TPM implementation and how to avoid or correct these problems. This book proposes theoretically developed and practically tested solutions for manufacturing and business improvements achieved in the period between two conferences. It enables presentation of new knowledge and exchange of practical experience in industrial systems engineering and management. It brings together prominent researchers and practitioners from faculties, scientific institutes, and different enterprises or other organizations .This is the 18th edition of the conference. The Department of Industrial Engineering and Management at the Faculty of Technical Sciences in Novi Sad organizes a scientific conference on industrial systems engineering and management field of science and practice, once in three years. 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. Innovations in Competitive Manufacturing is an examination of manufacturing innovations - both technical and knowledge-based. Over the recent past, technology has created dramatic changes in manufacturing. As a result, the book focuses on the use of technology in gaining competitive advantage in global manufacturing. Forty topics are surveyed in the book, organized into thirteen chapters. Each topic is a carefully written account by one or more leading researchers in that area. This is the first systematic examination of the recent innovations in manufacturing strategy and technology. In addition to providing an understanding of these manufacturing innovations, the book underscores the strategic importance of creating and sustaining the technological resources to ensure a stable manufacturing economic base. The book's purpose is to examine the elements that make today's manufacturers successful. Many examples from industry throughout the book will enable the reader to appreciate and comprehend the concepts presented in the article. In addition to the technical and innovative information, implementation issues concerning new ideas and manufacturing practices are

explored within the topical discussions. Four in-depth descriptions of real-life cases provide illustration of key principles. The book has been constructed as a reference tool for manufacturing researchers, students, and practitioners. Hence, after reading the introduction `Innovation in Competitive Manufacturing: From JIT to E-Business', any section or topic in the book can be consulted and/or read in any sequence the reader may choose. 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) Inhaltsangabe:Abstract: Modern manufacturing requires that organisations that want to be successful and to achieve world-class manufacturing must posses both effective and efficient maintenance. One approach to improve the performance of maintenance activities is to implement a Total Productive Maintenance (TPM) system. The aim of this dissertation is to prove that the introduction of a TPM system is by no means an easy task, because there are several barriers that encumber the implementation process, the driving forces to success have to be identified and well understood, and a process of organisational change has to be managed successfully. The study analyses impediments, barriers and obstacles to the implementation procedure and discovers key success factors concluding with a conceptual framework for a successful TPM implementation. The dissertation also examines the challenge of managing change within the TPM context and identifies that such a TPM journey requires employee and management commitment to be

successful. Through a case study of implementing TPM in an automotive supplier company, the practical aspect within and beyond basic TPM theory and problems encountered during the implementation are discussed and analysed. The paper concludes that the implementation of TPM is definitely not an easy task, which is considerably burdened by organisational, behavioural and other barriers, and necessitates the difficult mission to change peoples mindsets from a traditional maintenance approach. Inhaltsverzeichnis:Inhaltsverzeichnis: Title page01 Declaration and Word Count02 Abstract03 Acknowledgements04 Table of contents05 List of figures09 CHAPTER 1INTRODUCTION10 1.1Importance of TPM10 1.2Problem statement and objectives11 1.3Research methods12 1.4Structure of the study13 CHAPTER 2LITERATURE REVIEW14 2.1Defining TPM14 2.2Basic concept14 2.3Performance measurement17 2.4New roles of operators and maintenance staff19 2.5The JIPM s 12 steps to implement TPM21 2.6The connection between TPM and TQM23 2.7TPM in the view of change25 CHAPTER 3METHODOLOGY29 3.1Company profile and TPM background29 3.1.1General information about the company29 3.1.2CME: The plant of the focus of this study30 3.2Explanation, justification and limitations of selected methods32 3.2.1Focus group discussion32 3.2.1.1Data collection procedure33 3.2.1.2Data evaluation34 3.2.2Participant observation35 3.2.3Document analysis36 CHAPTER 4FINDINGS [...] 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. 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. Winner of a Shingo

Research and Professional Publication Award Lean Production Simplified, Second Edition is a plain language guide to the lean production system written for the practitioner by a practitioner. It delivers a comprehensive insider's view of lean manufacturing. The author helps the reader to grasp the system as a whole and the factors that animate it by organizing the book around an image of a house of lean production. Highlights include: A comprehensive view of Toyota1s lean manufacturing system A look at the origins and underlying principles of lean Identifying the goals of lean production Practical problem solving for lean production Activities that support involvement - Kaizen circles, suggestion systems, and problem solving This second edition has been updated with expanded information on the Lean Improvement Process; Production Physics and Little's Law - the fundamental equation for both manufacturing and service industries (cycle time = work in process/throughput); Value Stream Thinking - combining processes required to bring the product or service to the customer; Hoshin Planning -- using the Planning and Execution Tree diagram and Problem Solving -- including the "Five Why" method and how to use it. Lean Production Simplified, Second Edition covers each of the components of lean within the context of the entire lean production system. The author's straightforward common sense approach makes this book an easily accessible on-the-floor resource for every operator. This book is intended for those who want to get started with carrying out improvement projects on the shop floor or in their own work environment. In addition, this book is intended for anyone who participates as a team member in a larger Lean or Six Sigma, Green or Black Belt project. In terms of structure, this book follows the LSSA syllabus for Lean Six Sigma Yellow Belt. All techniques mentioned in this syllabus are covered in this book. It is advised to also use the accompanying exercise book. Managing Maintenance Resources shows how to reduce the complexity involved in engineering, or

re-engineering, a maintenance organization. It recognises that this is a complex problem involving many inter-related decisions – such as whether or not resources should be centralized, contractor alliances be entered into or flexible working be adopted. This book provides a unique approach to modeling maintenance-production organizations. It enables the identification of problems and delivers guidelines to develop effective solutions. This is one of three stand-alone volumes designed to provide maintenance professionals in any sector with a better understanding of maintenance management, enabling the identification of problems and the delivery of effective solutions. * The second of three stand-alone companion books, focusing on reducing the complexity of organizational design * Covers the maintenance of plant, production and operations assets in industry and service sectors, including manufacturing, food and process engineering, minerals and mining, transport, power and IT * Includes review questions, exercises and case studies * Clearly specified objectives and learning outcomes are given for each chapter, including a route map to link each chapter to the rest of the topics covered Given that for centuries, the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used, recent technology now permits the examination of diseased tissue in vivo. Optical coherence tomography (OCT) has promising potential when applied to coronary artery disease. OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable. If the plaques are stable then OCT can direct percutaneous intervention (angioplasty or stenting). Optical coherence tomography is a light-based imaging technology that allows for very high resolution imaging in biological tissues. It has been first applied in ophthalmology, where it soon became the golden standard for the assessment of (epi-) retinal processes. The unique imaging capabilities have raised 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 publication offers the reader the basic 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, biologists, engineers and physicist are discussing different aspects of cardiovascular OCT application in a multidisciplinary approach. The handbook offers the readership 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 highly recognized 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 perspective. Specifically, the current capabilities for plaque characterization, detection of vulnerable plaque, guidance of interventional procedures, Doppler-assessment, and molecular contrast imaging are being described. The Handbook of Optical Coherence Tomography in Cardiovascular Research targets researchers 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. Replacement Models with Minimal Repair is a collection of works by several well-known specialists on the subject of minimal repair in replacement policies. It gives an exhaustive list of minimal repair models for the effective planning of minimal repair and maintenance actions. Written in

an engaging style, Replacement Models with Minimal Repair balances complex mathematical models with practical applications. It is divided into six parts that cover: mathematical modeling of minimal repair; preventive maintenance models and optimal scheduling of imperfect preventive maintenance activities; a new warranty servicing strategy with imperfect repair; mathematical models combining burn-in procedure and general maintenance policies; methods for parameters' estimation of minimal repair models; and product support. Replacement Models with Minimal Repair is for anyone with an interest in minimal repair and its impact on maintenance policies and strategies. It is a particularly useful resource for researchers, practitioners, and graduate students. The structure of this book is based on the LSSA Skill set for Lean and Six Sigma Green Belt All of the techniques described in these Skill set will be reviewed in this book. The Lean elements will be discussed in chapter 1 to 6. The Six Sigma elements will be discussed in chapters 7 and 8. This book can be used for two purposes. Firstly, it acts as a guide for Green Belts undertaking a Lean or Six Sigma project following the DMAIC roadmap ('Define – Measure – Analyze – Improve – Control'). Secondly, this book serves to determine where the organization stands and what the best strategy is to get to a higher CIMM level. This second edition of An Introduction to Predictive Maintenance helps plant, process, maintenance and reliability managers and engineers to develop and implement a comprehensive maintenance management program, providing proven strategies for regularly monitoring critical process equipment and systems, predicting machine failures, and scheduling maintenance accordingly. Since the publication of the first edition in 1990, there have been many changes in both technology and methodology, including financial implications, the role of a maintenance organization, predictive maintenance techniques, various analyses, and maintenance of the program itself. This revision includes a complete update of the applicable

chapters from the first edition as well as six additional chapters outlining the most recent information available. Having already been implemented and maintained successfully in hundreds of manufacturing and process plants worldwide, the practices detailed in this second edition of An Introduction to Predictive Maintenance will save plants and corporations, as well as U.S. industry as a whole, billions of dollars by minimizing unexpected equipment failures and its resultant high maintenance cost while increasing productivity. A comprehensive introduction to a system of monitoring critical industrial equipment Optimize the availability of process machinery and greatly reduce the cost of maintenance Provides the means to improve product quality, productivity and profitability of manufacturing and production plants This utterly comprehensive work is thought to be the first to integrate the literature on the physics of the failure of complex systems such as hospitals, banks and transport networks. It has chapters on particular aspects of maintenance written by internationally-renowned researchers and practitioners. This book will interest maintenance engineers and managers in industry as well as researchers and graduate students in maintenance, industrial engineering and applied mathematics. To plan, build, monitor, maintain, and dispose of products and assets properly, maintenance and safety requirements must be implemented and followed. A lack of maintenance and safety protocols leads to accidents and environmental disasters as well as unexpected downtime that costs businesses money and time. With the arrival of the Fourth Industrial Revolution and evolving technological tools, it is imperative that safety and maintenance practices be reexamined. Applications and Challenges of Maintenance and Safety Engineering in Industry 4.0 is a collection of innovative research that addresses safety and design for maintenance and reducing the factors that influence and degrade human performance and that provides technological advancements and emergent technologies that reduce the dependence on operator

capabilities. Highlighting a wide range of topics including management analytics, internet of things (IoT), and maintenance, this book is ideally designed for engineers, software designers, technology developers, managers, safety officials, researchers, academicians, and students. Reduce or eliminate costly downtime Short on teory and long on practice, this book provides examples and case studies, designed to provide maintenance engineers and supervisors with a framework for operational strategies and day-to-day management and training techniques that will keep their equipment running at top efficiency. "Recent advancements in information systems and computer technology have led to developments 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. Regarding this second edition, within the past few years, the substantial development of Internet of Things (IoT) and significant advancements in artificial intelligence (AI) and machine learning (ML) have enabled a new generation of smart machines, which set the foundation for the Industry 4.0. Equipment utilizing IoT and sensors can monitor the components to be serviced at an exact time without the need to set a Preventive Maintenance schedule. Another fact is that equipment replacement rarely occurs at the end of the equipment's natural life; rather, replacement is driven by the introduction of new technologies and products - all of which lead to less maintenance activities and the traditional maintenance function becoming less vital. Explicitly, maintenance departments are operating with less employees and a smaller budget. At a point when machines are smart enough to keep themselves running or equipment are rendered obsolete by better equipment in a short time similar to computers and cellphones, companies do not need a maintenance department. This updated edition reiterates the importance of transitioning to the post-maintenance era in order to effectively manage today's sophisticated, smart and yet expansive equipment. Many changes the author predicted a decade ago are accelerating in the IoT era. Equipment management is moving further away from the maintenance era and advancing deeper into the post-maintenance era. The trend for smart machines is very clear and companies that do not upgrade their equipment will lose their competitiveness. As equipment and factories becoming smarter, companies must change their practices and organizational

structures to manage the new generation of equipment for the upcoming Industry 4.0"-- Analyzing maintenance as an integrated system with objectives, strategies and processes that need to be planned, designed, engineered, and controlled using statistical and optimization techniques, the theme of this book is the strategic holistic system approach for maintenance. This approach enables maintenance decision makers to view maintenance as a provider of a competitive edge not a necessary evil. Encompassing maintenance systems; maintenance strategic and capacity planning, planned and preventive maintenance, work measurements and standards, material (spares) control, maintenance operations and control, planning and scheduling, maintenance quality, training, and others, this book gives readers an understanding of the relevant methodology and how to apply it to real-world problems in industry. Each chapter includes a number exercises and is suitable as a textbook or a reference for a professionals and practitioners whilst being of interest to industrial engineering, mechanical engineering, electrical engineering, and industrial management students. It can also be used as a textbook for short courses on maintenance in industry. This text is the second edition of the book, which has four new chapters added and three chapters are revised substantially to reflect development in maintenance since the publication of the first edition. The new chapters cover reliability centered maintenance, total productive maintenance, e-maintenance and maintenance performance, productivity and continuous improvement. This book present the state of the art in Total Productive Maintainance (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. The financial approach to Total Production Maintenance. Recent advancements in information systems and computer technology have led to developments 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.

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