

## Uptime Strategies For Excellence In Maintenance Management Step By Step Approach To Tpm Implementation

The International Mining Forum is a recurring event, hosted by the University of Science and Technology in Cracow, Poland, bringing together an international group of scientists, including those working in rock mechanics and computer engineering as well as mining engineers. The topics are wide-ranging, including papers on remote sensing to assess primary impact; treatment of sealed-off coal mine fires; sustainable development in mine closure; and monitoring of natural hazards and safety issues.

It is critical to improve the asset management system implementation as well as economics and industrial decision making to ensure that a business may move smoothly internally. Maintenance management should be aligned to the activities of maintenance in accordance with key business strategies, which must be designed under the comprehensive approach of an asset management process. After transforming the priorities of the business into priorities of maintenance, maintenance managers will use their medium-team strategies to tackle potential weaknesses in the maintenance of the equipment in accordance with these objectives. Cases on Optimizing the Asset Management Process explains and summarizes the processes and the reference frame necessary for the implementation of the Maintenance Management Model (MMM). This book acts as an overview of the current state of the art in asset management, providing innovative tools and practices from the fourth industrial revolution. Presenting topics like criticality analysis, physical asset maintenance, and unified modelling language, this text is essential for industrial and manufacturing engineers, plant supervisors, academicians, researchers, advanced-level students, technology developers, and managers who make decisions in this field.

Lean has been frequently used for the past few decades, until today it is still being used widely by many organizations for various applications. With that many years of application as a foundation, Lean has been proven to be a versatile tool to solve problems especially related to efficiency and effectiveness. The book reviews and compile past successful stories of the implementation of Lean across several industries including both manufacturing and servicing. To show the versatility of Lean, integration of Lean with other strategies or tools is included as well.

If we are to be good at Asset Management we need to understand what it is and what it is not, begin to think of our business more holistically, consider our role as contributing to a greater whole and start behaving differently. Once we've achieved that, Asset Management should be sustained it never stops. Putting it in place is not just a project with a beginning and end although it may start that way. It is really about putting in place a new corporate culture and

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continually improving it. This book speaks to those changes and how to go about doing it. Target information for this title:  
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UptimeStrategies for Excellence in Maintenance Management, Third EditionProductivity Press

Intelligent Enterprises of the 21st Century is a comprehensive compilation of the state of the art vision and thought processes needed to design and manage globally competitive business organizations."--BOOK JACKET.

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)

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.

These proceedings include a collection of papers on a range of topics presented at the 12th World Congress on Engineering Asset Management (WCEAM) in Brisbane, 2 – 4 August 2017. Effective strategies are required for managing complex engineering assets such as built environments, infrastructure, plants, equipment, hardware systems and components. Following the release of the ISO 5500x set of standards in 2014, the 12th WCEAM addressed important issues covering all aspects of engineering asset management across various sectors including health. The topics discussed by the congress delegates are grouped into a number of tracks, including strategies for investment and divestment of assets, operations and maintenance of assets, assessment of assets' health conditions, risk and vulnerability, technologies, and systems for management of assets, standards, education, training and certification.

In today's competitive marketplace, the flow of goods and services to customers must not be hindered by obstacles such as maintenance downtime. To stay on top, managers must implement strategies that keep operations performing at high levels. Uptime, 2nd Edition, is an updated and expanded version of the invaluable first edition and provides current insight into successful strategies for managers, maintenance, and non-maintenance professionals alike. Updates from the first edition include current trends in technology, reliability maintenance improvements, and the challenges of finding qualified maintenance personnel due to an aging labor force. In addition, it gives a thorough review of what it takes to achieve excellence in maintenance - a key business process in any capital intensive industry. It treats this

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technical topic in a way that is easy to understand and links a variety of seemingly disparate and competing concepts into a single simple strategy. This new edition: Contains a single simple strategy depicted by a pyramid containing 10 components for world class maintenance, arrayed in a logical order. Draws on the expertise and observation of the authors as maintenance management consultants. Includes a number of updates to the original first edition, particularly in its discussion of computerized systems and support tools. Readers of this book will see many new examples that are more current and relevant to today's business environment.

Significantly extended from the first edition and published in response to the new international standard ISO55000, this book on physical asset management (2nd Ed.) presents a systematic approach to the management of physical assets from concept to disposal. It introduces the general principles of physical asset management and covers all stages of the asset management process, including initial business appraisal, identification of fixed asset needs, capability gap analysis, financial evaluation, logistic support analysis, life cycle costing, management of in-service assets, maintenance strategy, outsourcing, cost-benefit analysis, disposal and renewal. Physical asset management is the management of fixed assets such as equipment, plant, buildings and infrastructure. Features include: \*Suitable for university courses and builds on first edition to provide further analytical material \*Aligned with the international asset management standard ISO55000 \*Provides a basis for the establishment of physical asset management as a professional discipline \*Presents case studies, analytical techniques and numerical examples with solutions Written for practitioners and students in asset management, this textbook provides an essential foundation to the topic. It is suitable for an advanced undergraduate or postgraduate course in asset management, and also offers an ideal reference text for engineers and managers specializing in asset management, reliability, maintenance, logistics or systems engineering.

It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management (WCEAM) being held at the Conrad Jupiters Hotel on the Gold Coast from July 11 to 14, 2006. More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference. Day four will be host to a series of workshops devoted to the practice of various aspects of Engineering Asset Management. WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management. It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of: strategic asset management risk management in asset management design and life-cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management, warehousing and mining condition monitoring and intelligent maintenance intelligent sensors and devices regulations and standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management. We have attracted academics, practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every aspect of daily life.

The aim objective of CME 2014 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Information Management, Innovation Management, Project Management and Engineering. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration. Submitted conference papers will be reviewed by technical committees of the Conference.

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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 book will help readers gain a solid understanding of non-functional requirements inherent in systems design endeavors. It contains essential information for those who design, use and maintain complex engineered systems, including experienced designers, teachers of design, system stakeholders and practicing engineers. Coverage approaches non-functional requirements in a novel way by presenting a framework of four systems concerns into which the 27 major non-functional requirements fall: sustainment, design, adaptation and viability. Within this model, the text proceeds to define each non-functional requirement, to specify how each is treated as an element of the system design process and to develop an associated metric for their evaluation. Systems are designed to meet specific functional needs. Because non-functional requirements are not directly related to tasks that satisfy these proposed needs, designers and stakeholders often fail to recognize the importance of such attributes as availability, survivability, and robustness. This book gives readers the tools and knowledge they need to both recognize the importance of these non-functional requirements and incorporate them in the design process.

This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management (COMADEM 2019), held at the University of Huddersfield, UK in September 2019, and jointly organized by the University of Huddersfield and COMADEM International. The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management. The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring, root cause failure modes analysis, failure diagnosis, prognosis, and proactive management of industrial systems. There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring, maintenance, structural health monitoring, non-destructive testing and other allied areas. Bringing together expert contributions from academia and industry, this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques.

This book records one of the continuous attempts of the IFIP Working Group 8. 2, studying the interaction of information systems and the organization, to explore and understand the shifting boundaries and dependencies between organizational activities and their computer support. The book marks the result of the IFIP WG 8. 2 conference on "Designing Ubiquitous Information Environments: Socio-Technical

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Issues and Challenges. " Since its inception in the late 1970s, IFIP WG 8. 2 has sought to understand how computer-based information systems interact and must be designed as an integrated part of the organizational design. At that time, information systems handled repetitive and remote back-office functions and the main concern was work task design for repetitive input tasks and the potential impact of improved information support on organizational decision-making and structure. The focus of the information system design shifted in the 1980s when computers became part of the furniture and moved into the office. Reflecting this significant change, IFIP WG 8. 2 in 1989 organized a conference dedicated to the design and impact of desktop technology in order to examine how organizational processes and the locus of action changed when the computer was moved into the office. Sixteen years later, we are experiencing another significant change. Computers are now becoming part of our body and sensory system and will move out of the traditional office locations and into the wilderness. Again, IFIP WG 8.

Engineering asset management encompasses all types of engineered assets including built environment, infrastructure, plant, equipment, hardware systems and components. Following the release of ISO 5500x set of standards, the 9th WCEAM addresses the hugely important issue of what constitutes the body of knowledge in Engineering Asset Management. Topics discussed by Congress delegates are grouped into a number of tracks including strategies for investment and divestment of assets, operations and maintenance of assets, assessments of assets condition, risk and vulnerability, technologies and systems for management of asset, standards, education, training and certification. These proceedings include a sample of the wide range of topics presented during the 9th World Congress on Engineering Asset Management in Pretoria South Africa 28 – 31 October, 2014 and complements other emerging publications and standards that embrace the wide ranging issues concerning the management of engineered physical assets.

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.

Agilent Technologies, formerly Hewlett-Packard's Test and Measurement Division, operates an integrated circuit fabrication plant in Fort Collins, Colorado. Guided by Masaji Taijiri, the author of 7 Steps to Autonomous Maintenance (see page 34), author Jim Leflar and his team at Agilent developed a complete TPM program for the complex equipment on their shop floor. Drawn from these experiences, Practical TPM is a must read for anyone who wants to begin successful TPM implementation. Part I explains the fundamental concepts of TPM, including the six basic principles of TPM, the goals of TPM, cultural changes resulting from TPM, and the keys to successful implementation. Part II — the heart of the book — describes, in step-by-step detail, the evolution of Agilent's TPM program. Each phase is clearly defined and

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demonstrated; the working tools and systems developed by the Agilent TPM team in the process are discussed at length. To conclude, Part III focuses on developing a vision and a strategy for your own successful TPM program. Replete with annotated photographs and illustrations documenting Agilent's successful program, Practical TPM: Successful Equipment Management at Agilent Technologies offers an invaluable roadmap to TPM implementation. The book covers: A step-by-step TPM program as implemented at a major US corporation The 5-why analysis method Examples of one-point lessons Using visual controls in a TPM program Tools for understanding equipment failures Improving machine productivity Improvement metrics Master checklists and forms Developing activity boards Appendices containing examples of maintenance training materials For a PDF file with the preface and table of contents [click here](#). For a PDF file with the first chapter [click here](#).

In order to compete in an increasingly demanding market, many manufacturing companies have to redesign or restructure their manufacturing systems so that a set of coherent manufacturing strategies can be supported. So this book aims to provide a comprehensive treatment of manufacturing strategy analysis (MSA) and manufacturing systems design (MSD). The strategic concerns of manufacturing are linked to subsequent manufacturing systems design activities through the use of an effective MSA/MSD interface. Topics include: A structured approach to formulating manufacturing strategies; A set of linking processes to translate MSA concerns into relevant MSD action plans; Case studies. This book is intended to help graduates and industry-based professionals to make more informed decisions when working on system-design or redesign projects.

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In the past decades asset intensive companies have witnessed a number of regulatory changes and especially industry is facing ever increasing competitiveness. To overcome these challenges different asset management methods have been developed aimed to improve the asset life cycle. Especially the design phase and operation and maintenance phase have seen a rise in tools and methods. Smarter design can lead to improved operation. Likewise, improved operation and maintenance leads to lower replacement costs and may provide the basis for better design. This book brings together and coherently presents the current state of the art in asset management research and practice in Europe from a life cycle perspective. Each chapter focuses on specific parts of this life cycle and explains how the methods and techniques described are connected and how they improve the asset life cycle, thus treating this important subject from a unique perspective.

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.

Saša Baškarada presents a capability maturity model for information quality management process assessment and improvement. The author employed six exploratory case studies and a four round Delphi study to gain a better understanding of the research problem and to build the preliminary model, which he then applied in seven international case studies for further enhancement and external validation.

Recent advancements in information systems and computer technology have led to developments in equipment and robotic

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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.

This book comprises technical papers that were presented at the International Mining Forum 2004. This event aims to bring together scientists and engineers in mining, rock mechanics, and computer engineering, with a view to explore and discuss international developments in the field. The book is addressed to researchers and professionals who work i

Considering that the biggest machines that do the most work are made up of smaller machines and components, it becomes obvious that when a large machine breaks, it is normally due to small components acting antagonistically. Detailing a time-tested method for increasing productivity and lowering operational costs, Spend Analysis and Specification Development Using Failure Interpretation explains how to establish performance-based procurement specifications for the components, devices, and items that contribute the most to operational downtime and repair/replacement costs. The book emphasizes the critical need to perform both spend and failure analysis in order to develop a procurement document, which will ultimately reduce overall costs.

Accompanied by a CD with helpful material such as, specification checklists, case study worksheets, form letters, and return on investment (ROI) worksheets that you can customize to your needs, the text discusses how to: Identify the products that will cost the most if they fail Develop performance-based procurement specifications to reduce direct and indirect costs Examine cost analysis as it relates to operations, maintenance, and production Determine effective criteria based on properties, test results, and standards for each operation Written by an industry expert with decades of experience giving seminars, training customers and associates, and authoring numerous papers and articles, the text provides the real-world understanding of the influential components and materials' physical properties needed to engage in effective failure and spend analysis. It addresses product

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submission and monitoring and includes helpful tools so you can immediately get started on conducting your own cost-saving analysis.

Based on the results of research in physical asset management, Maintenance, Replacement, and Reliability: Theory and Applications introduces students to the tools for making data-driven decisions and how to use them. The book offers 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 and pharmaceutical 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 WiebullSoft. This book can be used as a textbook for a one-semester senior undergraduate or postgraduate course on maintenance decision analysis. It provides problem sets with answers at the end of each chapter, an extensive set of PowerPoint slides covering the various chapters and appendices, a solutions manual for the problems in the book, and a bank of more than 100 examination questions. Instructors who adopt the book can obtain these resources at [www.crcpress.com](http://www.crcpress.com). The authors approach the topic with the ideology that mathematical modeling is not a spectator sport. Their examination of the underpinning theories for formulating models and exploration of real-world applications make the book both informative and practical. It provides professors with the tools they need to easily teach their students how to transform data into information.

Engineering and infrastructure assets maintain the lifeline of economies. It is, therefore, critical to manage these assets in such a way that they provide a consistent level of service throughout their lifecycle. Management of asset lifecycle, however, is information intensive and utilises a plethora of information systems. The role of these systems in asset management is much more profound. It extends beyond the organizational boundaries and addresses business relationships with external stakeholders to deliver enhanced level of business outcomes. In doing so information systems are not only required to translate business strategic considerations into action, but are also expected to produce learnings and feedback that informs business strategy and aids in strategic reorientation.

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.

“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.

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This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely, relevant and practically important in the modern digital era towards safer, cost effective, efficient, and secure engineered assets such as production and manufacturing plants, process facilities, civil structures, equipment, machinery, and infrastructure. It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors. The professional coverage of the book includes: Asset management in Industry 4.0; Standards and models; Sustainable assets and processes; Life cycle perspectives; Smart and safer assets; Applied data science; Workplace safety; Asset health; Advances in equipment condition monitoring; Critical asset processes; and Innovation strategy and entrepreneurship. 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.

????:Reliability centred maintenance

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

Addressing the specific needs of engineers, scientists, and technicians, this reference introduces engineering students to the basics of marketing, human resource management, employment relations, personnel management, and financial management. This guide will help engineering students develop a sense for business and prepare them for the commercial and administrative dealings with customers, suppliers, contractors, accountants, and managers.

Planning and Control of Maintenance Systems is the first book to address maintenance and repair from an engineering perspective. Using the innovative concept of total productive maintenance (TPM) and written by three renowned experts

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in statistics, operations research, and engineering, it is an essential tool for planning a maintenance system using statistical and optimization techniques in order to avert equipment failure. Suitable for engineers and managers in capital-intensive industry, as well as for first-year graduate students and undergraduates in mechanical or industrial engineering. Engineering Asset Management 2010 represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fifth World Congress on Engineering Asset Management (WCEAM). The proceedings of the WCEAM 2010 is an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such 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 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 Sustainability in asset management

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