

Asset Management Excellence Optimizing Equipment Life Cycle Decisions Second Edition Mechanical Engineering

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.

"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. This unique reference utilizes techniques based on other management measurement systems, such as the balanced scorecard. It also presents a maturing of measurement technique for maintenance and asset maintenance and development techniques allowing companies to be competitive into the future.

The book is about applying Lean manufacturing principles to industrial maintenance in order to improve the efficiency and be able to do more with the same (or less) resources. By industrial maintenance we mean the maintenance that takes place in factories and industrial facilities. The book is the result of multiple improvement projects carried out by the authors in various industrial settings and sectors in the past 10 years. The approach works and can be applied in any industry. It yields results without investment. The book is a step-by-step guide that takes the reader through the maintenance process, from equipment failure to finished repair. In each step of the process, the typical inefficiencies are explained and tools are given to improve the process. The book is meant to be used as a guide in an improvement journey. The improvement approach presented in the book is very close to the shop floor and instructs the reader to engage with all team members in the maintenance department in every step of the process, in order to make the improvements sustainable. If one looks at the main market indexes, between one third and one half of companies on those indexes belong to the industrial sector: automotive, power generation, basic materials, chemicals,

consumer goods, et cetera. Those companies spend on average 2 – 5% of plant replacement value per year on maintenance. About one third of this cost is maintenance labor. The maintenance work that gets done every day in factories around the world is typically inefficient, from a Lean perspective: time is wasted, different tasks are not properly coordinated, job durations are overestimated and job plans, when they exist, are thus "inflated" to cover up the inefficiency. All this happens because maintenance tends to be the "forgotten" area of efficiency in industrial companies, as much of the improvements are carried out on the (literally) productive areas of the factories. When companies set out to "improve" maintenance, they typically do it through budget cuts that can risk the reliability of the equipment. The authors believe there is a better way to do more with the same resources through a careful review of the current way of working and the introduction of Lean. With this book, the authors try to bring to maintenance managers and practitioners the tools they need to quickly improve efficiency (in a matter of weeks) without any investment.

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 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.

The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications, Handbook of Industrial Engineering Equations, Formulas, and Calculations contains a general collection of the mathematical equations often used in the practice of industrial engineering. Many books cover individual areas of engineering

Updated to account for ISO 55000, Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition, now includes an overview of this seminal and long-awaited standard and identifies the specific points where ISO 55000 will impact maintenance and reliability. New graphics to enhance the text's main points have been added throughout. As with past editions, the third edition provides a logical, step-by-step methodology that will enable any company to properly benchmark its maintenance function. It presents an overview of the benchmarking process, a detailed form for surveying and "grading" maintenance management, and a database of the results of more than 100 companies that have used this survey. Widely used,

Benchmarking Best Practices for Maintenance, Reliability and Asset Management, Third Edition, has proven to be an invaluable planning guide and on-the-job reference for maintenance managers, plant engineers, operations managers, and plant managers. 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.

A new edition of the most popular book of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Optimizing Company Cash provides a comprehensive guide to all elements of cash management in a business including: Inflows Outflows Cash conversion cycles Short-term borrowing and investing International business How to structure a corporate treasury function In over 200 pages, the Guide explains how CPAs and financial managers can manage their company's short-term resources to sustain ongoing activities, mobilize funds and optimize liquidity. It also provides diagrams of work flows, step-by-step checklists, templates, and treasury tips for CPAs and finance managers who are responsible for making the most of working capital and short-term resources.

Devising optimal strategy for maintaining industrial plant can be a difficult task of daunting complexity. This book aims to provide the plant engineer with a comprehensive and systematic approach, a framework of guidelines, for tackling this problem, i.e. for deciding maintenance objectives, formulating equipment life plans and plant maintenance schedules, designing the maintenance organisation and setting up appropriate systems of documentation and control. 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) and TPM (Wilmott)

Much of current management literature focuses on a limited set of 'classical' value levers, such as cost reduction, sales optimization or mergers & acquisitions, thus neglecting another core value lever: capital investments. That capital investments receive such limited attention is all the more surprising when one considers how vitally important they are to the economy as a whole as well as individual businesses. There is significant value-creation potential in optimizing capital investments. Investments not only determine the asset structure of a venture. They also enable the introduction of new products structural cost reductions. The book focuses on core questions to be answered in the critical design and realization phase of new investments: Right positioning – does the competitive situation allow the investment to be successful Right technology – how to optimize timing and risks of technology innovations Right timing – how to cope with economic cycles Right size – how to identify the optimum size of an asset Right location – how to find the best location for an asset Right design – how to make investments lean and flexible Right financing – how to structure the investment financing The book features an introductory section that provides an overview of investments across the globe, across industries and across time provides practical advice on how to allocate capital to several projects within a company's investment portfolio. Optimising Fixed Asset Investment is illustrated with real world examples from a range of industries.

This book is essential reading for managers faced with challenges of making individual or portfolio capital investment decisions and who are responsible for managing these capital assets over their entire asset lifecycle. The ideas put forward within the book will help to sharpen the focus of management on the impact capital investments have on the well-being and growth of their companies. Optimizing Fixed Asset Investments is a strategic manual for everyone involved or interested in large fixed-capital investments.

Now in its fifth edition, the hugely popular Digital Marketing Excellence: Planning, Optimizing and Integrating Online Marketing is fully updated, keeping you in line with the changes in this dynamic and exciting field and helping you create effective and up-to-date customer-centric digital marketing plans. A practical guide to creating and executing digital marketing plans, it combines established approaches to marketing planning with the creative use of new digital models and digital tools. It is designed to support both marketers and digital marketers, and students of business or marketing who want a thorough yet practical grounding in digital marketing. Written by two highly experienced digital marketing consultants, the book shows you how to: Draw up an outline digital marketing plan Evaluate and apply digital marketing principles and models Integrate online and offline communications Implement customer-driven digital marketing Reduce costly trial and error Measure and enhance your digital marketing Learn best practices for reaching and engaging your audiences using the key digital marketing platforms like Apple, Facebook, Google and Twitter. This new edition seamlessly integrates the latest changes in social media technology, including expanded coverage of mobile technology, demonstrating how these new ways to reach customers can be integrated into your marketing plans. It also includes new sections on data analytics, clearly demonstrating how marketers can leverage data to their advantage. Offering a highly structured and accessible guide to a critical and far-reaching subject, Digital Marketing Excellence, Fifth Edition, provides a vital reference point for all students and managers involved in marketing strategy and implementation.

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.

Embraces both the theoretical background and the practical implementation of CRM strategy. Also comprises of elements of marketing, accounting, human resources, information technology and strategic management to ensure that it provides a comprehensive and fully developed introductory text.

Amid a plethora of challenges, technological advances in science and engineering are inadvertently affecting an increased spectrum of today's modern life. Yet for all supplied products and services provided, robustness of processes, methods, and techniques is regarded as a major player in promoting safety. This book on systems reliability, which equally includes maintenance-related policies, presents fundamental reliability concepts that are applied in a number of industrial cases. Furthermore, to alleviate potential cost and time-specific bottlenecks, software engineering and systems engineering incorporate approximation models, also referred to as meta-processes, or surrogate models to reproduce a predefined set of problems aimed at enhancing safety, while minimizing detrimental outcomes to society and the environment.

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.

We're constantly looking for ways to make our companies or organizations more successful. We often ask ourselves: "What can we do to develop and drive maximum organizational performance?" "How can we separate ourselves from the competition?" "How can we build a long-term sustainable advantage?" It used to be that organizations could differentiate themselves through such means as product leadership, advanced technology, geographic coverage or process management tools and systems. But in today's ultra-competitive global business environment, these advantages are short-term and temporary. The reality is that the only long-term sustainable advantage that remains is the "people."

However, leveraging your workforce as a practice isn't so easy to understand, let alone accomplish... unless you have a roadmap or path to help you along the way. Human Capital Management: Leveraging Your Workforce for a Competitive Advantage is just that. Your roadmap to maximizing your most important organizational asset: your people. This roadmap is centered on Human Capital Management as a practice, and focuses on how to successfully implement organizational goals that are heavily reliant on the collective efforts of the people in your organization. This book is practical, and from a seasoned business executive's point of view. It's relevant for any size organization, both for profit and not-for-profit. Real-life examples are included to support the principles and key learning points. This book was written primarily for people who are in a position to directly and significantly influence an organization through its human capital, that is, CEOs, HR managers and other leaders who are charged with the responsibility to make their organizations successful. It's also applicable to aspiring managers, professionals, and students who can learn new organizational and management techniques that will be helpful to them as they navigate their careers. Whether you're a student aspiring to be a business leader, an already seasoned exec or someone who would like to climb the ranks of their company, this book has plenty of resources to offer with supporting anecdotes that can help not only you, but your organization benefit as a whole.

The managed flow of goods and information from raw material to final sale also known as a "supply chain" affects everything--from the U.S. gross domestic product to where you can buy your jeans. The nature of a company's supply chain has a significant effect on its success or failure--as in the success of Dell Computer's make-to-order system and the failure of General Motor's vertical integration during the 1998 United Auto Workers strike. Supply Chain Integration looks at this crucial component of business at a time when product design, manufacture, and delivery are changing radically and globally. This book explores the benefits of continuously improving the relationship between the firm, its suppliers, and its customers to ensure the highest added value. This book identifies the state-of-the-art developments that contribute to the success of vertical tiers of suppliers and relates these developments to the capabilities that small and medium-sized manufacturers must have to be viable participants in this system. Strategies for attaining these capabilities through manufacturing extension centers and other technical assistance providers at the national, state, and local level are suggested. This book identifies action steps for small and medium-sized manufacturers--the "seed corn" of business start-up and development--to improve supply chain management. The book examines supply chain models from consultant firms, universities, manufacturers, and associations. Topics include the roles of suppliers and other supply chain participants, the rise of outsourcing, the importance of information management, the natural tension between buyer and seller, sources of assistance to small and medium-sized firms, and a host of other issues. Supply Chain Integration will be of interest to industry policymakers, economists, researchers, business leaders, and forward-

thinking executives.

This concise guide is aimed at providing awareness on the subject of intellectual property asset development and management as a tool for economic development. The guide has been developed within the context of a project to identify and gather data concerning the key policies, strategies and practices that are being undertaken by WIPO Member States to use intellectual property assets.

Asset Management Excellence Optimizing Equipment Life-Cycle Decisions, Second Edition CRC Press

Definitions, Concepts and Scope of Engineering Asset Management, the first volume in this new review series, seeks to minimise ambiguities in the subject matter. The ongoing effort to develop guidelines is shaping the future towards the creation of a body of knowledge for the management of engineered physical assets. Increasingly, industry practitioners are looking for strategies and tactics that can be applied to enhance the value-creating capacities of new and installed asset systems. The new knowledge-based economy paradigm provides imperatives to combine various disciplines, knowledge areas and skills for effective engineering asset management. This volume comprises selected papers from the 1st, 2nd, and 3rd World Congresses on Engineering Asset Management, which were convened under the auspices of ISEAM in collaboration with a number of organisations, including CIEAM Australia, Asset Management Council Australia, BINDT UK, and Chinese Academy of Sciences, Beijing University of Chemical Technology, China. Definitions, Concepts and Scope of Engineering Asset Management will be of interest to researchers in engineering, innovation and technology management, as well as to managers, planners and policy-makers in both industry and government.

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

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers

(CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org.

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.

Over the past decade, companies have redirected their maintenance operational focus from internal cost-cutting to profit-maximization. This approach is referred to as profit centered maintenance. Peters provides maintenance supervisors and managers with a benchmarking/best practices road-map called the Maintenance Operations Scoreboard. The Scoreboard will allow maintenance managers to: a) determine and quantify benefits and savings, b) improve craft productivity and c) define a strategy to improve efficiency and productivity. These things are at the heart of a successful Profit Centered Maintenance organization. The author-devised Maintenance Operations Scoreboard is used to perform over 200 maintenance evaluations in over 5,000 profit centered maintenance organizations. For example, at Honda of America, it was used extensively to direct maintenance strategy. It was later translated into Japanese for presentation to key Japanese executives. Another excellent example is Boeing Commercial Aircraft Inc. Boeing combined elements from this same Scoreboard with their company-wide maintenance goals to develop 'The Boeing Scoreboard for Maintenance Excellence.' Over 60 facility maintenance work units, at region, group and team levels, are evaluated at on-site visits using the Scoreboard criteria.

This book presents a systematic approach to the management of physical assets from concept to disposal, building upon the previous editions and brought up-to-date with the new international standards ISO55002 and ISO/TS50010. It introduces the general principles of physical asset management and covers all stages of the asset management process, including initial business appraisal, identification of physical asset needs, capability gap analysis, financial evaluation, logistic support analysis, life cycle costing, strategic asset management planning, maintenance strategy, outsourcing, cost-benefit analysis, disposal and renewal. Features include: providing a textbook for asset management courses to university level; relating closely to the ISO55000 international asset management standard series; providing a basis for the establishment of physical asset management as a professional discipline; and presenting case studies, analytical techniques and numerical examples with solutions. Written for practitioners and students in asset management, this book 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.

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.

A resource for individuals responsible for siting decisions, this guidelines book covers siting and layout of process plants, including both new and expanding facilities. This book provides comprehensive guidelines in selecting a site, recognizing and assessing long-term risks, and the optimal lay out of equipment facilities needed within a site. The information presented is applicable to US and international locations. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Total quality management (TQM), reengineering, the workplace of the twenty-first century--the 1990s have brought a sense of urgency to organizations to change or face stagnation and decline, according to Enhancing Organizational Performance. Organizations are adopting popular management techniques, some scientific, some faddish, often without introducing them properly or adequately measuring the outcome. Enhancing Organizational Performance reviews the most popular current approaches to organizational change--total quality management, reengineering, and downsizing--in terms of how they affect organizations and people, how performance improvements can be measured, and what questions remain to be answered by researchers. The committee explores how theory, doctrine, accepted wisdom, and personal experience have all served as sources for organization design. Alternative organization structures such as teams, specialist networks, associations, and virtual organizations are examined. Enhancing Organizational Performance looks at the influence of the organization's norms, values, and beliefs--its culture--on people and their performance, identifying cultural "levers" available to organization leaders. And what is leadership? The committee sorts through a wealth of research to identify behaviors and skills related to leadership effectiveness. The volume examines techniques for developing these skills and suggests new competencies that will become required with

globalization and other trends. Mergers, networks, alliances, coalitions--organizations are increasingly turning to new intra- and inter-organizational structures. Enhancing Organizational Performance discusses how organizations cooperate to maximize outcomes. The committee explores the changing missions of the U.S. Army as a case study that has relevance to any organization. Noting that a musical greeting card contains more computing power than existed in the entire world before 1950, the committee addresses the impact of new technologies on performance. With examples, insights, and practical criteria, Enhancing Organizational Performance clarifies the nature of organizations and the prospects for performance improvement. This book will be important to corporate leaders, executives, and managers; faculty and students in organizational performance and the social sciences; business journalists; researchers; and interested individuals. 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.

"This book explains and summarizes the processes (course of actions and the number of stages or steps to follow) and the reference frame (the essential support structure and the basic system) necessary for the implementation of the introduced maintenance management model (MMM) and will help managers, technology developers, scientists and engineers to adopt and implement optimum decision making based on techniques of maintenance and reliability in organizations"--

Introduction Vision, Mission and Strategy Maintenance Basics Planning and Scheduling Parts, Materials and Tools Management Reliability Operational Reliability M&R Tools Performance Measure - Metrics Human Side of M&R Best Practices/Benchmarking Maintenance Excellence Appendices

Since the publication of the second edition in 2013, there has been an increasing interest in asset management globally, as evidenced by a series of international standards on asset management systems, to achieve excellence in asset management. This cannot be achieved without high-quality data and the tools for data interpretation. The importance of such requirements is widely recognized by industry. The third edition of this textbook focuses on tools for physical asset management decisions that are data driven. It also uses a theoretical foundation to the tools (mathematical models) that can be used to optimize a variety of key maintenance/replacement/reliability decisions. Problem sets with answers are provided at the end of each chapter. Also available is an extensive set of PowerPoint slides and a solutions manual upon request with qualified textbook adoptions. This new edition can be used in undergraduate or post-graduate courses on physical asset management.

Physical asset management is the management of fixed or non-current assets such as equipment and plant. Physical Asset Management presents a systematic approach to the management of these assets from concept to disposal. The general principles of physical asset management are discussed in a manner which makes them accessible to a wide audience, and covers all stages of the asset management process, including: initial business appraisal; identification of fixed asset needs; financial evaluation;

logistic support analysis; life cycle costing; maintenance strategy; outsourcing; cost-benefit analysis; disposal; and renewal. Physical Asset Management addresses the needs of existing and potential asset managers, and provides an introduction to asset management for professionals in related disciplines, such as finance. The book provides both an introduction and a convenient reference work, covering all the main areas of physical asset management.

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.

This three volume set presents papers from the first collaborative global metallurgy conference focused exclusively on extractive topics, including business and economic issues. Contributions examine new developments in foundational extractive metallurgy topics and techniques, and present the latest research and insights on emerging technologies and issues that are shaping the global extractive metallurgy industry. The book is organized around the following main themes: hydrometallurgy, pyrometallurgy, sulfide flotation, and extractive metallurgy markets and economics.

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