

# Physical Asset Management Handbook

## Mitchell

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The book provides both an introduction and a convenient reference work, covering all the main areas of physical asset management. Physical asset management is the management of fixed or non-current assets such as equipment and plant.

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**Process Machinery** 2021-11-22 Fred K. Geitner The authors describe a risk-based approach to commissioning and start-up of process machinery. Techniques are provided to quantify the safety risks and risks associated with machinery failure and estimated impact on start-up schedules. Examples of defining and quantifying the risks, based on the extent of the commissioning effort as a function of criticality of the machinery are offered. Also included are numerous, directly applicable checklists.

**Definitions, Concepts and Scope of Engineering Asset Management** 2010-11-02 Joe E. Amadi-Echendu 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.

**Servitization and Physical Asset Management** 2018-12-31 Michael John Provost Servitization and Physical Asset Management, third edition, was developed to provide a structured source of

guidance and reference information on the business opportunities linked to servitization and the management of physical assets. A growing trend in the global economy, servitization focuses on the actual deliverables of an asset from the perspective of the customer: electricity instead of the power plant, thrust instead of the engine, mobility instead of a plane or a car. The book offers high-level overviews of how to servitized and manage assets from a variety of perspectives, reviewing nearly 1,500 books, magazine articles, papers and presentations and websites. Written by Michael J. Provost, Ph.D., and a subject matter expert in modeling, simulation, analysis and condition monitoring, *Servitization and Physical Asset Management*, third edition, is an invaluable reference to those considering providing asset management services for the products they design and manufacture. It is also meant to support middle management wishing to know what needs to be done to look after the assets they are responsible for and who to approach for help, and academics doing research in this field. Michael Provost, is a British engineer with a doctoral degree in thermal power from Cranfield University.

Physical Asset Management 2009-09-29 Nicholas Anthony John Hastings 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.

**Asset Management** 2012-01-12 Telli Van der Lei 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.

Operational Excellence 2015-03-23 John S. Mitchell Provides the foundation and tools that are essential for an enterprise to bring Operational Excellence into their organizational culture; gain maximum results, benefits and value Strategies for and implementing details for enterprises at all levels of maturity from those with programs in place to those looking to improve safety, health, environment performance as well as the efficiency and effectiveness of their operations Includes topics from concept to sustainability satisfying knowledge requirements of all levels in the organization Defines program objectives; develops improvement strategies; identifies and prioritizes improvement opportunities; implements improvement plans; monitors, continuously improves and sustains results Applicable to a broad variety of operating enterprises, academic institutions and third party implementing organizations

**Physical Asset Management Handbook** 2007 John Steward Mitchell The *Pigging Handbook* represents the accumulated knowledge and experience of the authors, which spans a period of more

than 30 years in the industry. This third edition contains the very latest information about the rapidly changing products and services now available. It is a unique source of reference. The Pigging Handbook is a day-to-day working tool, ideal for pipeline operators, designers, contractors, inspection and maintenance engineers. Pigging manufacturing and service companies will find it especially useful. The contents are arranged in a logical order for quick, easy reference. It covers pigging in water, refined products, gas, and crude oil pipelines as well as in-plant piping systems. The book contains numerous drawings, diagrams, photographs and tables, along with ready-to-use forms and procedures.

**Integrated Vehicle Health Management** 2014-11-10 Ian K Jennions Integrated Vehicle Health Management: Implementation and Lessons Learned is the fourth title in the IVHM series published by SAE International. This new book introduces a variety of case studies, lessons learned, and insights on what it really means to develop, implement, or manage an integrated system of systems. Integrated Vehicle Health Management: Implementation and Lessons Learned brings to the reader a wide set of hands-on stories, made possible by the contribution of twenty-three authors, who agreed to share their experience and wisdom on how new technologies are developed and put to work. This effort was again coordinated by Dr. Ian K. Jennions, Director of the IVHM Centre at Cranfield University (UK), and editor of the previous books in the series. Integrated Vehicle Health Management: Implementation and Lessons Learned, with seventeen, fully illustrated chapters, covers diverse areas of expertise such as the impact of trust, human factors, and evidential integrity in system development. They are complemented by valuable insights on implementing APU health management, aircraft health trend monitoring, and the historical perspective of how rotorcraft HUMS (Health and Usage Monitoring Systems) opened doors for the adoption of this cutting-edge technology by the global commercial aviation industry.

**Advances in Through-life Engineering Services** 2017-04-22 Louis Redding This edited book offers further advances, new perspectives, and developments from world leaders in the field of through-life engineering services (TES). It builds up on the earlier book by the same authors entitled: "Through-life Engineering Services: Motivation, Theory and Practice." This compendium introduces and discusses further, the developments in workshop-based and 'in situ' maintenance and support of high-value engineering products, as well as the application of drone technology for autonomous and self-healing product support. The links between 'integrated planning' and planned obsolescence, risk and cost modelling are also examined. The role of data, information, and knowledge management relative to component and system degradation and failure is also presented. This is supported by consideration of the effects upon the maintenance and support decision by the presence of 'No Fault Found' error signals within system data. Further to this the role of diagnostics and prognostics is also discussed. In addition, this text presents the fundamental information required to deliver an effective TES solution/strategy and identification of core technologies. The book contains reference and discussion relative to automotive, rail, and several other industrial case studies to highlight the potential of TES to redefine the product creation and development process. Additionally the role of warranty and service data in the product creation and delivery system is also introduced. This book offers a valuable reference resource for academics, practitioners and students of TES and the associated supporting technologies and business models that underpin whole-life product creation and delivery systems through the harvesting and application of condition and use based data.

**Physical Asset Management** 2021-01-12 Nicholas Anthony John Hastings 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.

ICML 55.1 - Requirements for the Optimized Lubrication of Mechanical Physical Assets 2023-12-21 The International Council for Machinery Lubrication (ICML), USA ICML 55.1 is part of a series of standards documents that represent the ICML 55® International Lubrication Standard. ICML 55.1 details the twelve Lubrication Management Plans/Auditable Elements that an organization must establish, document, manage, and maintain to satisfy the organization's lubrication asset management strategy and system, and to successfully certify to the ICML 55 standard. ICML 55.1 is intended for use in association with ICML 55.0, Optimized Lubrication of Mechanical Physical Assets Overview, ICML 55.2, Guideline for the Optimized Lubrication of Mechanical Physical Assets, and ICML 55.3, Auditors' Standard Practice and Policies Manual.

Cases on Optimizing the Asset Management Process 2021-10-15 González-Prida, Vicente 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.

Managing Protected Areas 2012-05-04 Michael Lockwood This handbook, produced by world renowned experts from the World Conservation Union (IUCN), spans the full terrain of protected area management and is the international benchmark for the field. The book employs dozens of detailed international cases studies, hundreds of concise topical snapshots, maps, tables, illustrations and a colour plate section, as well as evaluation tools, checklists and numerous appendices to cover all aspects of park management from biodiversity to natural heritage to financial management. The book establishes a conceptual underpinning for protected area management, presents guiding principles for the 21st century, reflects recent work on international best practice and provides an assessment of skills required by professionals. As the most authoritative guide ever compiled to the principles and practice of protected area management, this volume is essential for all professionals and students in all countries and contexts.

**Maintenance and Reliability Best Practices** 2009 Ramesh Gulati

**Proceedings on 18th International Conference on Industrial Systems - IS'20** 2022-05-23

Bojan Lalic 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.

*Engineering Asset Management* 2008-02-06 Joseph Mathew 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.

Engineering Asset Management and Infrastructure Sustainability 2012-05-11 Joseph Mathew 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

After-sales Service of Engineering Industrial Assets 2014-01-10 Vicente González-Prida Díaz This book explores the practical implementation of an advanced after-sales management framework devoted to warranty management. The framework is intended for companies producing either standardized or customized products and such a management tool will facilitate organizational improvement and support innovative decision making processes for technical assistance in after-sales services. "After-sales Service of Engineering Industrial Assets" comprises a proposal for a warranty management framework, with an account of the different methods that can be used to

improve decision making in the different stages of the after-sales service management process, and strategies for strengthening the structure and foundations of the framework. A review of the fundamental issues and current research topics in warranty management and after sales services is also provided, which is exemplified by a case study. This book is intended for postgraduates, researchers and engineers who are interested in after sales management, assets engineering and warranty management.

Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)

2016-03-25 Kari T. Koskinen This book comprises refereed papers from the 10th World Congress on Engineering Asset Management (WCEAM 2015), held in Tampere, Finland in September 2015.

These proceedings include a compilation of state-of-the-art papers covering a comprehensive range of subjects equally relevant to business managers and engineering professionals alike. With a focus on various aspects of engineering asset management ranging from strategic level issues to detail-level machine health issues, these papers address both industry and public sector concerns and issues, as well as advanced academic research. Proceedings of the WCEAM 2015 is an excellent reference and resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students at tertiary institutions or in the industry.

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