

Nicholas Anthony John Hastings

Physical Asset Management

With an Introduction to ISO55000

Second Edition

 Springer

Physical Asset Management With An Introduction To Iso55000

**Adolfo Crespo Márquez, Dragan
Komljenovic, Joe Amadi-Echendu**



Physical Asset Management With An Introduction To Iso55000:

Physical Asset Management Nicholas Anthony John Hastings, 2009-09-29 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 Physical Asset Management Nicholas Anthony John Hastings, 2015-02-21

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

Physical Asset Management Nicholas Anthony John Hastings, 2021-01-12 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 Smart, Sustainable Manufacturing in an Ever-Changing World Konrad von Leipzig,Natasha Sacks,Michelle Mc Clelland,2023-03-03 This book presents recent developments research results and industrial experience to increase the knowledge base of academics and industry In a small world where trade is the new global driving force conquering countries and continents alike international competitiveness is becoming the ultimate challenge It requires high quality products manufactured with state of the art technologies at low cost under the assumption of highly efficient operations management as well as clear corporate goals and strategy This in turn is based on improved engineering training and education relevant applied research and an active interaction between academia and industry **Engineering Assets and Public Infrastructures in the Age of Digitalization** Jayantha P. Liyanage,Joe Amadi-Echendu,Joseph Mathew,2020-08-17 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 Innovations in Industrial Engineering José Machado,Filomena Soares,Justyna Trojanowska,Vitalii Ivanov,2021-06-23 This book covers a variety of topics in the field of industrial engineering with a special focus on research and industrial applications aimed at both improving quality of processes and products and contributing to a sustainable economy Based on a set of papers presented at the 1st International Conference Innovation in Engineering ICIE held in Guimar es Portugal on June 28 30 2021 it focuses on innovative technologies associated with and strategies for the development of Industry 4 0 The chapters discuss new ways to improve industrial production and supply chain management by applying mathematical and computational methods They also cover important issues relating to sustainability education and collaborations between industry and universities and national developments This book which belongs to a three volume set provides engineering researchers and professionals with a timely overview and extensive information on trends and technologies behind the current and future developments of

Industry 4.0 **Maintenance, Replacement, and Reliability** Andrew K. S. Jardine, Albert H. C. Tsang, 2021-09-15 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. **Smart Maintenance for Human-Robot Interaction** Bo Xing, Tshilidzi Marwala, 2017-09-08 This self contained book written by active researchers presents up to date information on smart maintenance strategies for human robot interaction HRI and the associated applications of novel search algorithms in a single volume eliminating the need to consult scattered resources. Unlike other books it addresses maintaining a smart HRI from three dimensions namely hardware cyberware and hybrid asset management covering problems encountered in each through a wide variety of representative examples and elaborated illustrations. Further the diverse mathematical models and intelligent systems constructions make the book highly practical. It enables readers interested in maintenance robotics and intelligent systems but perplexed by myriads of interrelated issues to grasp basic methodologies. At the same time the referenced literature can be used as a roadmap for conducting deeper researches. **Cases on Optimizing the Asset Management Process** González-Prida, Vicente, Márquez, Carlos Alberto Parra, Márquez, Adolfo Crespo, 2021-10-15 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 term 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. **A Comprehensive Guide to Managing Municipal Infrastructure Assets** Soliman Abusamra, Ayman H. El

Hakea,2025-03-31 Comprehensive and practical this book provides an essential resource for educators researchers students and those in public agencies and consultancies who are directly responsible for managing municipal infrastructure such as roads water and sewer pipes The book is thorough in the integration of procedures that establish a cost effective intervention plan using the latest technologies and management processes It examines all the aspects of developing an optimal asset management plan for collocated municipal assets It presents the evolution of asset management from data requirements to investment planning and priority programming of rehabilitation and maintenance It offers a coordinated approach to effectively manage municipal infrastructure and offers integrated solutions that aid decision makers in taking informed decisions on 1 when to maintain each asset 2 which corridors shall be prioritized and 3 what is the best intervention to undertake for each asset It also offers a compelling vision of how infrastructure and cities will evolve by 2050 shaped by advancements in digital technology transportation governance sustainability resilience and climate change It provides invaluable insights for practitioners emphasizing how today s decisions and investments will directly influence the future of urban environments Features Presents the most current methodologies and practical applications of managing collocated municipal infrastructure Includes case studies and practical examples for each step as well as an extensive list of references for each asset class Examines novel approaches for reduced lifecycle costs enhanced conditions improved level of service reduced risk increased maintenance effectiveness and reduced service disruptions Explores the future of urban infrastructure in 2050 helping practitioners envision tomorrow s cities and make informed investment decisions in today s infrastructure

Power and Gas Asset Management Miguel Moreira da Silva,2020-01-01 This book offers meaningful insights into an impending challenge for the energy industry namely the increasing role of asset management amongst the utilities core operations In the aftermath of energy digitalization power and gas companies will be able to seize asset productivity through risk based operation and maintenance and better balance capital and operational expenditures By addressing the asset management of both power and gas infrastructures and by adopting a comprehensive approach including regulation and business models as well as a solid technology background this book offers a unique perspective on the energy utilities transformation journey and the road to optimal decision making for both asset portfolio expansion and replacement The asset management end to end mission requires appropriate internal governance depending on the business framework and the development of decision aid models for asset replacement and maintenance supported on probabilistic risk and reliability indexes This book advocates systematically digitalizing the power and gas assets addressing both data governance and infrastructure alongside real time equipment condition monitoring It also provides a meaningful methodology for designing data centric asset management and predictive operation and maintenance using artificial intelligence and engineering based approaches As such it provides valuable strategy methods and models illustrated by case studies and proofs of concept for a wide range of stakeholders including utilities and industry professionals regulators policy

makers researchers and students **Managed Aquifer Recharge for Water Resilience** Peter Dillon, Enrique Fernández Escalante, Sharon B. Megdal, 2021-04-01 This book is a hard copy of the editorial and all the papers in a Special Issue of the peer reviewed open access journal *Water* on the theme Managed Aquifer Recharge for Water Resilience Managed aquifer recharge MAR is the purposeful recharge of water to aquifers for subsequent recovery or environmental benefit MAR is increasingly used to make water supplies resilient to drought climate change and deteriorating water quality and to protect ecosystems from declining groundwater levels Global MAR has grown exponentially to 10 cu km year and will increase ten fold within a few decades Well informed hydrogeologists engineers and water quality scientists are needed to ensure that this investment is effective in meeting increasingly pressing needs This compilation contains lessons from many examples of existing projects including several national and continental summaries It also addresses the elements essential for identifying and advancing projects such as mapping aquifer suitability and opportunities policy matters operational issues and some innovations in MAR methods and monitoring This collection exemplifies the state of progress in the science and practice of MAR and is intended to be useful at least to water managers water utilities agricultural water users and urban planners to facilitate water resilience through new MAR projects Physical Asset Management Dharmen Dhaliyah, 2016-10-17 A holistic approach to managing physical assets has become a top priority for organizations both in the public and private sectors For years to come considerable amount of funds is being committed to invest in physical assets and asset management practitioners are honing their skills to be part of the huge undertaking But there is one key oversight how will organizations cope with the implementation of a holistic physical asset management approach In many organizations there exists a lack of collaboration and alignment to achieve organizational strategic goals Why Organizational silos the very silos that must be major contributors for the successful implementation of the holistic physical asset management approach *Physical Asset Management An Organizational Challenge* explores how the physical asset management philosophy fits within an organization details the challenges it faces and reviews the different functional areas dealing with physical assets Existing gaps and overlaps are uncovered exposing those that hinder collaboration and alignment Written with asset management practitioners in mind as well as everyone involved with physical assets *Physical Asset Management An Organizational Challenge* and its case studies will aid organizations to be better prepared when they embark on the journey of holistic physical asset management *Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)* Kari T. Koskinen, Helena Kortelainen, Jussi Aaltonen, Teuvo Uusitalo, Kari Komonen, Joseph Mathew, Jouko Laitinen, 2016-03-25 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 **Advanced Maintenance Modelling for Asset Management** Adolfo Crespo Márquez,Vicente González-Prida Díaz,Juan Francisco Gómez Fernández,2017-07-12 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 **15th WCEAM Proceedings** João Onofre Pereira Pinto,Marcio Luiz Magri Kimpara,Renata Rezende Reis,Turuna Seecharan,Belle R. Upadhyaya,Joe Amadi-Echendu,2022-03-24 This book gathers selected peer reviewed papers from the 15th World Congress on Engineering Asset Management WCEAM which was hosted by The Federal University of Mato Grosso do Sul Campo Grande Brazil from 15 18 August 2021 This book covers a wide range of topics in engineering asset management including strategy and standards sustainability and resiliency servitisation and Industry 4 0 business models asset information systems and asset management decision making 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 *Energy Production and Management in the 21st century IV* S. Syngellakis,E. Magaril,H. Al-Kayiem,2020-08-19 The future of energy production operation and management in a changing world is a major global topic The papers contained in this volume were presented at the 4th International Conference on Energy Production and Management The Quest for Sustainable Energy and focus on the comparison of conventional energy sources particularly hydrocarbons with a number of other ways of producing energy such as new technological developments based on renewable resources such as solar hydro wind and geothermal A key issue is the conversion of new sustainable sources of energy into useful forms electricity heat fuel while finding efficient ways of storage and distribution In many cases the challenges lie as much with production of such renewable energy at an acceptable cost including damage to the environment as with integration of those resources into the existing infrastructure This book features research on the ways in which more efficient use can be made of both conventional and new energy sources This relates to savings in energy consumption reduction of energy losses as well as the implementation of smart devices and the design of intelligent distribution networks Various topics are covered including Energy and the city Energy security Energy distribution Energy networks Processing of

oil and gas emissions Pipelines Renewable energies Energy use in building Tight energy fields Energy and climate change Biomass and biofuels Environmental sustainability Energy business LNG **Standards for Management Systems**

Herfried Kohl, 2020-02-19 This book guides readers through the broad field of generic and industry specific management system standards as well as through the arsenal of tools that are needed to effectively implement them It covers a wide spectrum from the classic standard ISO 9001 for quality management to standards for environmental safety information security energy efficiency business continuity laboratory management etc A dedicated chapter addresses international management standards for compliance anti bribery and social responsibility management In turn a major portion of the book focuses on relevant tools that students and practitioners need to be familiar with 8D reports acceptance sampling failure tree analysis FMEA control charts correlation analysis designing experiments estimating parameters and confidence intervals event tree analysis HAZOP Ishikawa diagrams Monte Carlo simulation regression analysis reliability theory data sampling and surveys testing hypotheses and much more An overview of the necessary mathematical concepts is also provided to help readers understand the technicalities of the tools discussed A down to earth yet thorough approach is employed throughout the book to help practitioners and management students alike easily grasp the various topics *14th WCEAM Proceedings*

Adolfo Crespo Márquez, Dragan Komljenovic, Joe Amadi-Echendu, 2020-12-02 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 WCEAM Online 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 *Asset Management Decision-Making For Infrastructure Systems* Alireza Mohammadi, Luis Amador Jimenez, 2022-04-25 This textbook provides practical and concrete guidance for the step by step implementation of decision making for infrastructure asset management Examples are used to illustrate how data from condition assessment are used to develop performance models to estimate the effectiveness of investments that are prioritized and scheduled to accomplish reliable and convenient infrastructure for the wellbeing of the public and regional economic competitiveness Book illustrates numerous worked problems to clarify ambiguity in developing a decision making platform to prioritize assets and distribute budgets effectively and efficiently Ensures reader understanding of the benefits and challenges of infrastructure asset management Provides a step by step guide for the development of each component of an asset management decision making system Includes worked examples to clarify decision making and budget allocation process

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