Iso 55000 2014 Asset Management Overview Principles

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Life Cycle Cost Model to Support Asset Management Decision Making
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The (New) Asset Management Handbook
Asset Management Decision-Making For Infrastructure Systems
Mastering ISO 55001
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Optimum Decision Making in Asset Management
Servitization and Physical Asset Management
Municipal Asset Management Toolkit (Guidelines for Local Decision Makers)
Physical Asset Management

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Systems Engineering in Context Springer Science & Business Media
Through research and proven practice, the aim of the International Conference of Sustainable Ecological Engineering Design for Society (SEEDS) is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well-being of society. The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse. The SEEDS conference addresses the

interdependence of people, the built and natural environments, and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change.
Managing Engineered Assets CRC Press
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.

Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts Cybellium Ltd

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.

Asset Management Springer Nature
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.

Standards for Management Systems CRC Press
A practical guide to facilitate statistically well-founded decisions in the management of assets of an electricity grid Effective and economic electric grid asset management and incident management involve many complex decisions on inspection, maintenance, repair and replacement. This timely reference provides statistically well-founded, tried and tested analysis

methodologies for improved decision making and asset management strategy for optimum grid reliability and availability. The techniques described are also sufficiently robust to apply to small data sets enabling asset managers to deal with early failures or testing with limited sample sets. The book describes the background, concepts and statistical techniques to evaluate failure distributions, probabilities, remaining lifetime, similarity and compliancy of observed data with specifications, asymptotic behavior of parameter estimators, effectiveness of network configurations and stocks of spare parts. It also shows how the graphical representation and parameter estimation from analysis of data can be made consistent, as well as explaining modern upcoming methodologies such as the Health Index and Risk Index. Key features: Offers hands-on tools and techniques for data analysis, similarity index, failure forecasting, health and risk indices and the resulting maintenance strategies. End-of-chapter problems and solutions to facilitate self-study via a book companion website. The book is essential reading for advanced undergraduate and graduate students in electrical engineering, quality engineers, utilities and industry strategists, transmission and distribution system planners, asset managers and risk managers.

Performance Management for the Oil, Gas, and Process Industries Springer This book gathers the latest advances, innovations, and applications in the field

of information technology in civil and building engineering, presented at the 18th International Conference on Computing in Civil and Building Engineering (ICCCBE), São Paulo, Brazil, August 18-20, 2020. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering, computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

The Maintenance Management Framework Gulf Professional Publishing

This insightful book presents a comprehensive understanding of the new technologies impacting the digital era of built asset and facility management. Informative and accessible, it illustrates how the concepts, principles, strategies and applications of digital built asset management can be improved and implemented in real-life practice.

Climate Emergency – Managing, Building , and Delivering the

Sustainable Development Goals

Springer

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.

Healthcare Technology Management - A Systematic Approach IGI Global

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.

Cases on Optimizing the Asset Management Process Springer Nature 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.

16th WCEAM Proceedings Universitas Islam Indonesia

Asset management is becoming increasingly important to an organization’s strategy, given its effects on cost, production, and quality. No matter the sector, important decisions are made based on techniques and theories that are thought to optimize results; asset management models and techniques could help maximize effectiveness while reducing risk. Optimum Decision Making in Asset Management posits that effective decision making can be augmented by asset management based on mathematical techniques and models. Resolving the problems associated with minimizing uncertainty, this publication outlines a myriad of methodologies,

procedures, case studies, and management tools that can help any organization achieve world-class maintenance. This book is ideal for managers, manufacturing engineers, programmers, academics, and advanced management students.

Information Security Governance

Springer Nature

The book aims to be reading for asset maintenance management in a perspective of whole life cycle of any type of physical asset. It deals with acquisition management, including econometric models to evaluate its life cycle, and the maintenance policies to adopt during its life until withdrawal. It also covers vital areas such as EAM/CMMS systems and its integration with the many technologies that are used to aid condition monitoring and the internet of things to improve maintenance management and to increase equipment availability. This will equip readers with new management methodologies, their requisites, and its importance to the improvement of corporate competitiveness. Key Features • Presents life cycle analysis in asset management • Attribution of tools to improve the life cycle of equipment • Provides assistance on the diagnosis of the maintenance state • Presentation of the state-of-the-art of technology to aid maintenance • Explores integration of EAM/CMMS systems with internet of things

Asset Management SAE International

This book considers all aspects of performability engineering, providing a

holistic view of the activities associated with a product throughout its entire life cycle of the product, as well as the cost of minimizing the environmental impact at each stage, while maximizing the performance. Building on the editor's previous Handbook of Performability Engineering, it explains how performability engineering provides us with a framework to consider both dependability and sustainability in the optimal design of products, systems and services, and explores the role of performability in energy and waste minimization, raw material selection, increased production volume, and many other areas of engineering and production. The book discusses a range of new ideas, concepts, disciplines, and applications in performability, including smart manufacturing and Industry 4.0; cyber-physical systems and artificial intelligence; digital transformation of railways; and asset management. Given its broad scope, it will appeal to researchers, academics, industrial practitioners and postgraduate students involved in manufacturing, engineering, and system and product development. *Proceedings of the 10th World Congress on Engineering Asset Management (WCEAM 2015)* John Wiley & Sons TOTAL FACILITY MANAGEMENT A comprehensive review of what facility management means to owners, operators, occupiers, facility managers and professional advisors The newly revised Fifth Edition of Total Facility Management is an accessible and practical text that shows readers how

the concept and principles of facility management can be implemented in practice. The book deals with the most common and intractable challenges facing professionals, academics and students in the field and provides practical solutions with the means to implement them. The new edition includes a greater focus on applicable ISO standards in facility management as well as maintaining an international perspective throughout. The book contains easy-to-access advice on how facilities can be better managed from a range of perspectives, and the subjects covered provide a comprehensive treatment of facility management. Readers will benefit from the inclusion of: A thorough introduction to the fundamentals of facility management, including key roles, responsibilities and accountabilities and the core competencies of facility management An exploration of facility planning, facility management strategy, outsourcing, procurement, facility management organization, facility maintenance management and business continuity and recovery planning An examination of human resources management, well-being, workplace productivity, performance management health, safety, security and the environment A review of sustainable practices, change management, facility management systems, information management (including building information models and digital twins) and innovative technology. The book is the perfect choice for undergraduate and graduate

studies in facility management, construction management, project management, surveying and other AEC disciplines. Total Facility Management will also earn a place on the desk of practicing facility managers, as well as in the libraries of academics and researchers whose work requires them to understand the theory and practice of facility management.

Life Cycle Cost Model to Support Asset Management Decision Making Springer This book gathers selected peer-reviewed papers from the 16th World Congress on Engineering Asset Management (WCEAM), held in Seville from 5–7 October 2022. This book covers a wide range of topics in Engineering Asset Management, including: Asset management and decision support system Industry 4.0 tools and its impact on asset management Monitoring, diagnostics and prognostics for smart maintenance Asset life cycle management Asset management in the industrial sector Human dimensions and asset management performance Infrastructure Asset management Asset condition, risk, resilience, and vulnerability assessments Asset operations and maintenance strategies Reliability and resilience engineering Applications of international and local guidelines and standards The breadth and depth of this state-of-the-art, comprehensive proceedings make it an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate

students.

Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies CRC Press

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.

Power and Gas Asset Management Edward Elgar Publishing

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.

Infrastructure Asset Management with Power System Applications CRC Press

Pavement and Asset Management contains contributions from the World Conference on Pavement and Asset Management (WCPAM 2017, Baveno, Italy, 12-16 June 2017). For the first time, the European Pavement and Asset Management Conference (EPAM) and the International Conference on Managing Pavement Assets (ICMPA) were joining forces for a global event that aimed not only at academics and researchers, but also at practitioners, engineers and technicians dealing with everyday tasks and responsibilities related to transport infrastructures pavement and asset management. Pavement and Asset Management covers a wide range of topics, from emerging research to engineering practice, and is grouped under the following themes: - Data quality and monitoring - Economics, political and environmental management, strategies - Deterioration models - Key performance indicators - PMS-case studies - Design and materials

- M&R treatments - LCA & LCCA - Risk and safety - Bridge and tunnel management - Smart infrastructure and IT Pavement and Asset Management will be valuable to academics and professionals interested and/or involved in issues related to transport infrastructures pavement and asset management.

Asset Management John Wiley & Sons Healthcare Technology Management: A Systematic Approach offers a comprehensive description of a method for providing safe and cost effective healthcare technology management (HTM). The approach is directed to enhancing the value (benefit in relation to cost) of the medical equipment assets of healthcare organizations to best support patients, clinicians and other care providers, as well as financial stakeholders. The authors propose a management model based on interlinked strategic and operational quality cycles which, when fully realized, delivers a comprehensive and transparent methodology for implementing a HTM programme throughout a healthcare organization. The approach proposes that HTM extends beyond managing the technology in isolation to include advancing patient care through supporting the application of the technology. The book shows how to cost effectively manage medical equipment through its full life cycle, from acquisition through operational use to disposal, and to advance care, adding value to the medical equipment assets for the benefit of patients and

stakeholders. This book will be of interest to practicing clinical engineers and to students and lecturers, and includes self-directed learning questions and case studies. Clinicians, Chief Executive Officers, Directors of Finance and other hospital managers with responsibility for the governance of medical equipment will also find this book of interest and value. For more information about the book, please visit the website.

Proceedings of the 18th International Conference on Computing in Civil and Building Engineering Springer Science & Business Media

This textbook deals with engineering, science, technical, legal, financial, ICT, logistics and people management topics necessary for managing engineered assets such as all man-made tools, gadgets, buildings, equipment, machines, infrastructure, large-scale physical and industrial facilities and systems which pervade all sectors of industry. By coalescing concepts, principles, practices, and practical issues from the relevant multi-disciplines, the book addresses the body of knowledge required for managing engineered assets in the 4IR and Society 5.0 era and beyond. The book is written for: Scholars and students who intend to strengthen or acquire knowledge about the concepts, principles, and practice of managing engineered assets; Managers of engineered assets in both the public and private sectors who aim to improve asset management practice for their organisational purposes and missions;

Policymakers and regulators in order to improve policymaking, governance, assessment and evaluation frameworks on the management of engineered assets; The broader audience concerned about the sustainable management of engineered assets that constitute our built environment and provide the means for industry and livelihood.