
En 13306

Asset Maintenance Engineering Methodologies

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

Predictive Maintenance in Smart Factories

Fault Diagnosis of Nonlinear Systems Using a Hybrid Approach

The MANTIS Book

Use, Operation and Maintenance of Renewable Energy Systems

Technical System Maintenance

PN-EN 13306

Invitations to Tender for Facility Management Services

Tagungsband des 4. Kongresses Montage Handhabung Industrieroboter

Production Management and Engineering Sciences

Resilience: A New Paradigm of Nuclear Safety

Fault Detection, Diagnosis and Prognosis

Introduction to Maintenance Engineering

Engineering Asset Management

Value Based and Intelligent Asset Management

Der Wartungsvertrag

Advanced Maintenance Modelling for Asset Management

A Process-Centric View on Predictive Maintenance and Fleet Prognostics. Development of a Process Reference Model and a

Development Method for Fleet Prognostics to Guide Predictive Maintenance Projects

Advances in Production Management Systems. Smart Manufacturing and Logistics Systems: Turning Ideas into Action

Reliability and Maintainability Assessment of Industrial Systems

Fiabilité technique et humaine

Workshops at 18th International Conference on Intelligent Environments (IE2022)

Transportation Systems

Maintenance for Industrial Systems

Artificial Intelligence in Renewable Energetic Systems
Cases on Optimizing the Asset Management Process
International Conference on Frontiers of Energy, Environmental Materials and Civil Engineering (FEEMCE 2013)
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En 13306

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*Asset Maintenance Engineering
Methodologies* CRC Press

Prevention is an attempt to look into the future and have a positive influence on it – therefore it is one of the most important aspects in the area of collection care, the central, current field of applied research in conservation and restoration. With sustainability damage and loss are avoided, dangers averted and research

conducted. Collection care is only successful, if the theory is appropriately implemented in museum practice.

Advanced Models and Tools for Effective Decision Making Under Uncertainty and Risk Contexts Springer Nature

Advances in Renewable Energies Offshore is a collection of the papers presented at the 3rd International Conference on Renewable Energies Offshore (RENEW 2018) held in Lisbon, Portugal, on 8-10 October 2018. The 104 contributions were written by a diverse international group of authors and have been reviewed by an

International Scientific Committee. The book is organized in the following main subject areas: - Modelling tidal currents - Modelling waves - Tidal energy devices (design, applications and experiments) - Tidal energy arrays - Wave energy devices (point absorber, multibody, applications, control, experiments, CFD, coastal OWC, OWC and turbines) - Wave energy arrays - Wind energy devices - Wind energy arrays - Maintenance and reliability - Combined platforms - Moorings, and - Flexible materials *Advances in Renewable Energies Offshore* collects recent developments in

these fields, and will be of interest to academics and professionals involved in the above mentioned areas.

Predictive Maintenance in Smart Factories Springer Nature

This book includes the latest research presented at the International Conference on Artificial Intelligence in Renewable Energetic Systems held in Tipaza, Algeria on October 22–24, 2017. The development of renewable energy at low cost must necessarily involve the intelligent optimization of energy flows and the intelligent balancing of production, consumption and energy storage. Intelligence is distributed at all levels and allows information to be processed to optimize energy flows according to constraints. This thematic is shaping the outlines of future economies of and offers the possibility of transforming society. Taking advantage of the growing power of the microprocessor makes the complexity of renewable energy systems accessible, especially since the algorithms of artificial intelligence make it possible to take relevant decisions or even reveal unsuspected trends in the management and optimization of renewable energy

flows. The book enables those working on energy systems and those dealing with models of artificial intelligence to combine their knowledge and their intellectual potential for the benefit of the scientific community and humanity.

Fault Diagnosis of Nonlinear Systems Using a Hybrid Approach CRC Press

This book explores the application of breakthrough technologies to improve transportation performance. Transportation systems represent the “blood vessels” of a society, in which people and goods travel. They also influence people’s lives and affect the liveability and sustainability of our cities. The book shows how emergent technologies are able to monitor the condition of the structure in real time in order to schedule the right moment for maintenance activities and so reduce the disturbance to users. This book is a valuable resource for those involved in research and development in this field. Part I discusses the context of transportation systems, highlighting the major issues and challenges, the importance of understating human factors that could affect the maintenance

operations and the main goals in terms of safety standards. Part II focuses on process-oriented innovations in transportation systems; this section stresses the importance of including design parameters in the planning, offering a comparison between risk-based and condition-based maintenance and, lastly, showing applications of emergent technologies. Part III goes on to reflect on the technical-oriented innovations, discussing the importance of studying the physical phenomena that are behind transportation system failures and problems. It then introduces the general trend of collecting and analyzing big data using real-world cases to evaluate the positive and negative aspects of adopting extensive smart sensors for gathering information on the health of the assets. The last part (IV) explores cultural and behavioural changes, and new knowledge management methods, proposing novel forms of maintenance and vocational training, and introduces the need for radical new visions in transportation for managing unexpected events. The continuous evolution of maintenance fields suggests that this compendium of “state-

of-the-art” applications will not be the only one; the authors are planning a collection of cutting-edge examples of transportation systems that can assist researchers and practitioners as well as students in the process of understanding the complex and multidisciplinary environment of maintenance engineering applied to the transport sector.

The MANTIS Book Springer

This book is published open access under a CC BY 4.0 license. This book summarizes presentations and discussions from the two-day international workshop held at UC Berkeley in March 2015, and derives questions to be addressed in multi-disciplinary research toward a new paradigm of nuclear safety. The consequences of the Fukushima Daiichi nuclear accident in March 2011 have fuelled the debate on nuclear safety: while there were no casualties due to radiation, there was substantial damage to local communities. The lack of common understanding of the basics of environmental and radiological sciences has made it difficult for stakeholders to develop effective strategies to accelerate recovery, and this is compounded by a

lack of effective decision-making due to the eroded public trust in the government and operators. Recognizing that making a society resilient and achieving higher levels of safety relies on public participation in and feedback on decision-making, the book focuses on risk perception and mitigation in its discussion of the development of resilient communities.

Use, Operation and Maintenance of Renewable Energy Systems Springer
Science & Business Media
I.S. EN 13306:2017

Technical System Maintenance

Springer Nature

This book covers advanced reliability and maintainability knowledge as applied to recent engineering problems. It highlights research in the fields of reliability measures of binary and complex engineering systems, cost analysis, simulations, optimizations, risk factors, and sensitivity analysis. The book scrutinizes various advanced tools and techniques, methodology, and concepts to solve the various engineering problems related to reliability and maintainability of the industrial system at minimum cost and

maximum profit. It consists of 15 chapters and offers a platform to researchers, academicians, professionals and scientists to enhance their knowledge and understanding the concept of reliability in engineering.

[PN-EN 13306](#) Springer Nature

These are the proceedings of the International Conference on Engineering Science and Production Management, 16th 17th April 2015, Tatransktrba, High Tatras Mountains - Slovak Republic . The

proceedings contain articles focusing on:-
Production Management, Logistics-
Industrial development, sustainable
production- Planning, management and pr
[Invitations to Tender for Facility
Management Services](#) Springer

The increasing complexity of space vehicles less than satellites, and the cost reduction measures that have affected satellite operators are increasingly driving the need for more autonomy in satellite diagnostics and control systems. Current methods for detecting and correcting anomalies onboard the spacecraft as well as on the ground are primarily manual and labor intensive, and therefore, tend to be slow. Operators inspect telemetry data to

determine the current satellite health. They use various statistical techniques and models, but the analysis and evaluation of the large volume of data still require extensive human intervention and expertise that is prone to error. Furthermore, for spacecraft and most of these satellites, there can be potentially unduly long delays in round-trip communications between the ground station and the satellite. In this context, it is desirable to have onboard fault-diagnosis system that is capable of detecting, isolating, identifying or classifying faults in the system without the involvement and intervention of operators. Toward this end, the principle goal here is to improve the efficiency, accuracy, and reliability of the trend analysis and diagnostics techniques through utilization of intelligent-based and hybrid-based methodologies.

Tagungsband des 4. Kongresses Montage Handhabung Industrieroboter CRC Press

The term Intelligent Environments (IEs) refers to physical spaces in which information and communication technologies are interwoven with sensing technologies, innovative user interfaces,

robotics and artificial intelligence to create interactive spaces which increase the awareness and enhance the experience of those occupying them. The growing IE community is rooted in academia, but increasingly involves practitioners. It explores the core ideas of IEs as well as the factors necessary to make them a reality, such as energy efficiency, the computational constraints of edge devices and privacy issues. This book presents papers from Workshops held during the 18th International Conference on Intelligent Environments, IE2022, held as a hybrid conference in Biarritz, France, from 20 to 23 June 2022. The conference is now recognized as a major annual venue in the field of IE. It offers a truly international forum for the exchange of information and ideas, and welcomes contributions from all technically active regions of the planet. Included here are 35 papers from the 1st International Workshop on Sentiment Analysis and Emotion Recognition for Social Robots (SENTIRobots'22); 1st International Workshop on Edge AI for Smart Agriculture (EAISA'22); 2nd International Workshop on Artificial Intelligence and Machine Learning for

Emerging Topics (ALLEGET'22); 11th International Workshop on the Reliability of Intelligent Environments (WoRIE'22); 2nd International Workshop on Self-Learning in Intelligent Environments (SeLIE'22); 5th Workshop on Citizen Centric Smart Cities Solutions (CCSCS'22); 11th International Workshop on Intelligent Environments Supporting Healthcare and Well-being (WISHWell'22) Exploring some of the latest research and developments in the field, the book will be of interest to all those working with intelligent environments and its associated technologies.

Production Management and Engineering Sciences Springer

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. Resilience: A New Paradigm of Nuclear Safety DEStech Publications, Inc

This book gathers the proceedings of an international conference held at Empa (Swiss Federal Laboratories for materials Science and Technology) in Dübendorf, Switzerland, in July 2020. The conference series was established by the International Society of Maintenance and Rehabilitation of Transport Infrastructure (iSMARTi) for promoting and discussing state-of-the-art design, maintenance, rehabilitation and management of pavements. The inaugural conference was held at Mackenzie Presbyterian University in Sao Paulo, Brazil, in 2000. The series has steadily grown over the past 20 years, with installments hosted in various countries all over the world. The respective contributions share the latest insights from research and practice in the maintenance

and rehabilitation of pavements, and discuss advanced materials, technologies and solutions for achieving an even more sustainable and environmentally friendly infrastructure.

Fault Detection, Diagnosis and Prognosis I.S. EN 13306:2017 Describes the generic terms and definitions for the technical, administrative and managerial areas of maintenance. PN-EN 13306 Maintenance for Industrial Systems

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.

Introduction to Maintenance Engineering Springer-Verlag

In the age of digitalization and the fourth industrial revolution, predictive maintenance is becoming increasingly important as a proactive maintenance type. Despite the economic benefits that predictive maintenance generates for companies, its practical application is still in its early stages. This is often due to two prevailing challenges. First, there is a deficiency of knowledge about predictive maintenance and its concrete realization.

Second, there is a lack of high quality and rich data of historical machine failures. To increase the representativeness of data, data from several similar machines (i.e. a fleet) should be considered. To foster the effective implementation of predictive maintenance, supportive guidance in the realization of a predictive maintenance project is needed. For this reason, this dissertation presents a process reference model and a development method for fleet prognostics. The process reference model describes a comprehensive and application-independent view of the complete predictive maintenance process. The model is supplemented by the fleet prognostic development method. To address the specific characteristics of the fleet, a systematic process is depicted which provides a means to assess the heterogeneity of the fleet from a data-driven perspective and simplifies the design of an algorithm considering fleet data. Finally, the applicability and value of the research results are demonstrated with three industrial cases

Springer

This introductory textbook links theory with practice using real illustrative cases

involving products, plants and infrastructures and exposes the student to the evolutionary trends in maintenance. Provides an interdisciplinary approach which links, engineering, science, technology, mathematical modelling, data collection and analysis, economics and management Blends theory with practice illustrated through examples relating to products, plants and infrastructures Focuses on concepts, tools and techniques Identifies the special management requirements of various engineered objects (products, plants, and infrastructures)

Engineering Asset Management

Springer Science & Business Media

The main objective of FEEMCE 2013 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Energy, Environmental Materials and Civil Engineering. This conference provides opportunities for the delegates to exchange new ideas and experiences face to face, to establish business or research relations and to find global partners for

future collaboration.

Value Based and Intelligent Asset Management Springer

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.

Der Wartungsvertrag Springer

New, global and extended markets are forcing companies to process and manage increasingly differentiated products with shorter life cycles, low volumes and reduced customer delivery times. In today's global marketplace production systems need to be able to deliver products on time, maintain market credibility and introduce new products and services faster than competitors. As a result, a new production paradigm of a production system has been developed and a supporting management decision-making approach simultaneously incorporating design, management, and control of the production system is necessary so that this challenge can be effectively and efficiency met.

"Maintenance Engineering and its Applications in Production Systems" meets this need by introducing an original and integrated idea of maintenance: maintenance for productivity. The volume

starts with the introduction and discussion of a new conceptual framework based on productivity, quality, and safety supported by maintenance. Subsequent chapters illustrate the most relevant models and methods to plan, organise, implement and control the whole maintenance process (reliability evaluation models and prediction, maintenance strategies and policies, spare parts management, computer maintenance management software - CMMS, and total productive maintenance - TPM, etc.). Several examples of problems supported by solutions, and real applications to help and test the reader's comprehension are included. "Maintenance Engineering and its Applications in Production Systems" will certainly be valuable to engineering students, doctoral and post-doctoral students and also to maintenance practitioners, as well as managers of industrial and service companies.

Advanced Maintenance Modelling for Asset Management Springer

This book features expert contributions on key sustainability aspects of urban water management in Chinese agglomerations. Both technical and institutional pathways

to sustainable urban water management are developed on the basis of a broad, interdisciplinary problem analysis.

A Process-Centric View on Predictive Maintenance and Fleet Prognostics. Development of a Process Reference Model and a Development Method for Fleet Prognostics to Guide Predictive Maintenance Projects IGI Global

This book constitutes extended selected papers from the 17th Conference on Advanced Information Technologies for Management, AITM 2019, and the 14th Conference on Information Systems Management, ISM 2019, held as part of the Federated Conference on Computer Science and Information Systems, FedCSIS, which took place in Leipzig, Germany, in September 2019. The total of 7 full and 6 short papers presented in this volume were carefully reviewed and selected from a total of 45 submissions. The papers selected to be included in this book contribute to the understanding of relevant trends of current research on and future directions of information technology for management in business and public organizations. They were organized in topical sections named: information

technology assessment for future development; methods and models for

designing information technology, and

aspects of implementing information technology.

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