

Machinery Fault Diagnosis And Advanced Signal Processing

Signal Processing for Fault Detection and Diagnosis in Electric Machines and Systems Mohamed Benbouzid 2020-12-09 This book contains 5 chapters that discusses the following topics: Parametric signal processing approach; The signal demodulation techniques; Kullback-Leibler divergence for incipient fault diagnosis; Higher-order spectra and Fault detection and diagnosis based on principal component analysis.

Signal Processing and Artificial Intelligence Technology for High-End Equipment Fault Diagnosis Bingyan Chen 2025-08-25 This Reprint presents the latest research progress of signal processing and artificial intelligence technologies for fault diagnosis of high-end mechanical equipment. It contains 13 original research papers, covering advanced dynamics modeling and mechanism analysis methods, novel signal processing and artificial intelligence methods for machine fault diagnosis using various sensing technologies, and their multi-field applications. These papers mainly report research outcomes in mechanical engineering and its interdisciplinary fields, covering different themes including fault mechanism analysis; structural health monitoring; fault diagnosis and remaining useful life prediction of rotating machinery; high-end mechanical equipment in different industrial fields including the railway, wind energy, machinery manufacturing, and aerospace industries; and different sensing technologies including vibration, temperature, thermal imaging, electrical signals, and force or torque. The Reprint highlights how different sensing technologies could be integrated with advanced signal processing and artificial intelligence technologies for fault diagnosis of industrial mechanical systems. The research results of these interdisciplinary applications will contribute to better understanding of the mechanisms of machine fault diagnosis and remaining useful life prediction, and the application of these advanced monitoring and diagnostic technologies will improve the safety and

reliability of mechanical systems in various industrial fields.

Advanced Signal Processing for the Identification and Diagnosis of the Condition of Rotating Machinery Peeters Cédric 2019 This Ph.D. dissertation targets innovative methods for vibration-based condition monitoring of rotating machinery. Substantial benefits can be achieved from an economical and a safety point of view using condition monitoring. One of the most popular methods to gather information about the state of machine parts is through the analysis of machine vibrations. Most of these vibrations are directly linked to periodical behavior of subsystems within the machine like e.g. rotating shafts, gears, rotating electrical fields, etc. This knowledge can be exploited to enable faultdependent processing schemes. This dissertation investigates how to implement and utilize these processing schemes and details the steps in such a procedure. Typically, the first prerequisite for advanced analysis is the availability of the instantaneous rotation speed. This speed needs to be known since most frequency-based analysis techniques assume stationary behavior. Knowledge of the speed thus allows for compensating speed fluctuations, for example through angular resampling of the vibration signal. While there are hardware-based solutions for speed estimation using angle encoders or tachometers, this thesis investigates the potential in vibration signals for speed estimation. After speed estimation and angular resampling, a common next step is to separate the signal into deterministic and stochastic components. The cepstrum editing procedure is examined for its efficacy and applicability. Afterwards, different filtering methods are inspected as to improve the signal-to-noise ratio of the signal content of interest. Existing methods using conventional criteria are investigated together with a novel blind filtering methodology. The final step in the multi-step processing scheme is to search for the potential fault. Statistical indicators can be calculated on the processed time domain signal and tracked over time to check for

increases. In many cases, the fault signature exhibits cyclostationary behavior. Therefore this dissertation also examines different cyclostationary analysis techniques. Lastly, the performance of the different processing methods is validated on two experimental vibration data sets of wind turbine gearboxes.

CIRP Journal of Manufacturing Systems 1999

Eighth International Conference on Quality Control by Artificial

Vision David Fofi 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Intelligent Fault Diagnosis and Remaining Useful Life Prediction of Rotating Machinery Yaguo Lei 2016-11-02 Intelligent Fault Diagnosis and Remaining Useful Life Prediction of Rotating Machinery provides a comprehensive introduction of intelligent fault diagnosis and RUL prediction based on the current achievements of the author's research group. The main contents include multi-domain signal processing and feature extraction, intelligent diagnosis models, clustering algorithms, hybrid intelligent diagnosis strategies, and RUL prediction approaches, etc. This book presents fundamental theories and advanced methods of identifying the occurrence, locations, and degrees of faults, and also includes information on how to predict the RUL of rotating machinery. Besides experimental demonstrations, many application cases are presented and illustrated to test the methods mentioned in the book. This valuable reference provides an essential guide on machinery fault diagnosis that helps readers understand basic concepts and fundamental theories. Academic researchers with mechanical engineering or computer science backgrounds, and engineers or practitioners who are in charge of machine safety, operation, and maintenance will find this book very useful. - Provides a detailed background and roadmap of intelligent diagnosis and RUL prediction of rotating machinery, involving fault mechanisms, vibration characteristics, health indicators, and

diagnosis and prognostics - Presents basic theories, advanced methods, and the latest contributions in the field of intelligent fault diagnosis and RUL prediction - Includes numerous application cases, and the methods, algorithms, and models introduced in the book are demonstrated by industrial experiences

Sparsity Measures and their Signal Processing Applications for Machine

Condition Monitoring Dong Wang 2025-02-01 Sparsity Measures and their Signal Processing Applications for Machine Condition Monitoring presents newly designed sparsity measures and their advanced signal processing technologies for machine condition monitoring and fault diagnosis. This book systematically covers new sparsity measures including a quasiarithmetic mean ratio framework for fault signatures quantification, a generalized Gini index, as well as classic sparsity measures based on signal processing technologies and a cycle-embedded sparsity measure based on new impulsive mode decomposition technology. This book additionally includes a sparsity measure data-driven framework-based optimized weights spectrum theory and its relevant advanced signal processing technologies. - Provides the background, roadmaps and detailed discussion of newly designed sparsity measures and their advanced signal processing technologies for machine condition monitoring and fault diagnosis - Covers new theories, advanced technologies, and the latest contributions in the field of machine condition monitoring and fault diagnosis - Particularly focuses on newly advanced sparsity measures for fault signature quantification, classic and advanced sparsity measures-based signal processing technologies and sparsity measures using data-driven framework-based signal processing technologies - Provides experimental and real-world practical validation cases, including newly advanced sparsity measures and their advanced signal processing technologies

Equipment Intelligent Operation and Maintenance Ruqiang Yan 2025-03-07 The proceedings of the First International Conference on Equipment Intelligent Operation and Maintenance (ICEIOM 2023) offer invaluable insights into the processes that ensure safe and reliable operation of equipment and guarantee the improvement of product life

cycles. The book touches upon a wide array of topics including equipment condition monitoring, fault diagnosis, and remaining useful life prediction. With special emphasis on the integration of big data and machine learning, the papers contained in this publication highlight how these technologies make the equipment operation process highly automated and ingenious. Intelligent operation and maintenance is set to act as the driving force behind a new generation of smart manufacturing and equipment upgradation, and promote demand for intelligent product services and management. This is a highly beneficial guide to students, researchers, working professionals and enthusiasts who wish to stay updated on innovative research contributions and practical applications of state-of-the-art technologies in equipment operation and maintenance.

Modern Mechanics and Applications Nguyen Tien Khiem 2021-09-06 This proceedings book includes a selection of refereed papers presented at the International Conference on Modern Mechanics and Applications (ICOMMA) 2020, which took place in Ho Chi Minh City, Vietnam, on December 2-4, 2020. The contributions highlight recent trends and applications in modern mechanics. Subjects covered include biological systems; damage, fracture, and failure; flow problems; multiscale multi-physics problems; composites and hybrid structures; optimization and inverse problems; lightweight structures; mechatronics; dynamics; numerical methods and intelligent computing; additive manufacturing; natural hazards modeling. The book is intended for academics, including graduate students and experienced researchers interested in recent trends in modern mechanics and application.

Intelligent Machinery Fault Diagnostics and Prognostics Deepam Goyal 2025-05-01 The field of machinery maintenance is undergoing a remarkable transformation, driven by the convergence of intelligent technologies and data-driven approaches. This book delves into the fascinating world of intelligent machinery fault diagnostics and prognostics, exploring how these advancements are reshaping the way we monitor, diagnose, and predict faults in machinery. Intelligent Machinery Fault Diagnostics and Prognostics: The Future of Smart Manufacturing uses an interdisciplinary approach to provide a well-

rounded understanding of smart manufacturing. It discusses cutting-edge smart manufacturing technologies and encompasses various aspects, from sensors and data analytics to predictive maintenance. The book offers real-world case studies illustrating how these innovations are successfully implemented in industrial settings and includes practical guidelines and methodologies that facilitate the implementation of solutions. The book also highlights the scalability and adaptability of this approach to different industries and manufacturing environments. Whether this book is for industry professionals, students, or researchers, readers can leverage the book's insights to optimize machinery performance, minimize downtime, reduce costs, and improve safety in their respective industries.

Vibrations in Rotating Machinery IMechE (Institution of Mechanical Engineers) 2004 This essential text contains the papers from the 8th international IMechE conference on Vibrations in Rotating Machinery held at the University of Wales, Swansea in September 2004. The themes of the volume are new developments and industrial applications of current technology relevant to the vibration and noise of rotating machines and assemblies. TOPICS INCLUDE Rotor balancing - including active and automatic balancing Special rotating machines - including micromachines Oil film bearings and dampers Active control methods for rotating machines Smart machine technology Dynamics of assembled rotors Component life predictions and life extension strategies The dynamics of geared systems Cracked rotors - detection, location and prognosis Chaotic behaviour in machines Experimental methods and discoveries.

Engineering Asset Management Joseph Mathew 2008-02-06 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.

Stationary and Non-stationary Process Condition Monitoring and Fault Diagnosis and Its Application to Drilling Processes Shuxin Gu 1997

Advanced Condition Monitoring and Fault Diagnosis of Electric Machines Irfan, Muhammad 2018-09-14 The reliability of induction motors is a major requirement in many industrial applications. It is especially important where an unexpected breakdown might result in the interruption of critical services such as military operations, transportation, aviation, and medical applications. *Advanced Condition Monitoring and Fault Diagnosis of Electric Machines* is a collection of innovative research on various issues related to machinery condition monitoring, signal processing and conditioning, instrumentation and measurements, and new trends in condition monitoring. It also pays special attention to the fault identification process. While highlighting topics including spectral analysis, electrical engineering, and bearing faults, this book is an ideal reference source for electrical engineers, mechanical engineers, researchers, and graduate-level students seeking current research on various methods of maintaining machinery.

Materials, Industrial, and Manufacturing Engineering Research Advances 1.1 Denni Kurniawan 2013-12-04 Selected, peer reviewed papers from the 1st International Materials, Industrial, and Manufacturing Engineering Conference (MIMEC 2013), December 4 - 6, 2013, Johor Bahru, Malaysia

Artificial Intelligence in Fault Diagnosis and Signal Processing

Roque Alfredo Osornio-Rios 2025-06-24 The aim of this reprint is to immerse the reader in the latest technological approaches employed in the detection and diagnosis of faults in industrial processes. As the early detection of faults avoids damage that may be irreparable to machinery, reducing the performance of the control system and reducing the process efficiency, which would result in a decrease in production, new approaches to the detection and diagnosis of faults have become a compulsory task in any Industry 4.0 implementation. To develop such a new generation of fault detection systems, the use of artificial intelligence techniques and advanced solutions in signal processing have also become the most suitable approach. The result of this issue is a collection of 15 works highlighting the latest advances in this topic, bringing researchers and industrial practitioners together to share their findings and present ideas that are relevant in the field of fault diagnosis using artificial intelligence and signal processing.

Computational Artificial Intelligence and Methods for industries

Vijayarangan Natarajan 2025-07-04 This book presents the result of an innovative challenge, to create a systematic literature overview driven by machine-generated content. Questions and related keywords were prepared for the machine to query, discover, collate and structure by Artificial Intelligence (AI) clustering. The AI-based approach seemed especially suitable to provide an innovative perspective as the topics are indeed both complex, interdisciplinary and multidisciplinary, for example, climate, planetary and evolution sciences. Springer Nature has published much on these topics in its journals over the years, so the challenge was for the machine to identify the most relevant content and present it in a structured way that the reader would find useful. The automatically generated literature summaries in this book are intended

as a springboard to further discoverability. They are particularly useful to readers with limited time, looking to learn more about the subject quickly and especially if they are new to the topics. Springer Nature seeks to support anyone who needs a fast and effective start in their content discovery journey, from the undergraduate student exploring interdisciplinary content to Master- or PhD-thesis developing research questions, to the practitioner seeking support materials, this book can serve as an inspiration, to name a few examples. It is important to us as a publisher to make the advances in technology easily accessible to our authors and find new ways of AI-based author services that allow human-machine interaction to generate readable, usable, collated, research content.

International Journal of Prognostics and Health Management

Volume 2 (color) PHM Society 2013-09-24 International Journal of Prognostics and Health Management (IJPHM) was established in 2009 to facilitate archival publication of peer-reviewed results from research and development in the area of PHM. As a journal solely dedicated to the emerging field of PHM IJPHM is the first of its kind and has been a focal point for dissemination of peer-reviewed PHM knowledge. While for the first few years the journal maintained only an online presence, the printed volumes will now be available and can be obtained upon request. IJPHM is dedicated to all aspects of PHM: technical, management, economic, and social. In addition to regular periodic volumes IJPHM also publishes special issues with quality papers dedicated to focused topics.

Rotating Machinery and Signal Processing Ahmed Felkaoui

2018-07-19 This book provides readers with a timely snapshot of the potential offered by and challenges posed by signal processing methods in the field of machine diagnostics and condition monitoring. It gathers contributions to the first Workshop on Signal Processing Applied to Rotating Machinery Diagnostics, held in Setif, Algeria, on April 9-10, 2017, and organized by the Applied Precision Mechanics Laboratory (LMPA) at the Institute of Precision Mechanics, University of Setif, Algeria and the Laboratory of Mechanics, Modeling and Manufacturing (LA2MP) at the National School of Engineers of Sfax. The respective

chapters highlight research conducted by the two laboratories on the following main topics: noise and vibration in machines; condition monitoring in non-stationary operations; vibro-acoustic diagnosis of machinery; signal processing and pattern recognition methods; monitoring and diagnostic systems; and dynamic modeling and fault detection.

Non-Destructive Testing and Condition Monitoring Techniques in Wind Energy Fausto Pedro Garcia Marquez 2023-06-24

Non-Destructive Testing and Condition Monitoring Techniques in Wind Energy looks at the complex and critical components of energy assets and the importance of inspection and maintenance to ensure their high availability and uninterrupted operation. Presenting the main concepts, state-of-the-art advances and case studies, this book approaches the topic by considering it as an integral part of the overall operation of any wind energy project. Linking the essential NDT subject with its sub disciplines, the book uses computational techniques, dynamic analysis, probabilistic methods, and mathematical optimization techniques to support analysis of prognostic problems with defined constraints and requirements. This book is the first of its kind and will provide useful insights to industrial engineers and scientists, academics and students in the possibilities that NDT and condition monitoring technologies can offer. - Presents advances in Non-Destructive Techniques and Condition Monitoring Systems applied in the energy industry - Provides case studies in Fault Detection and Diagnosis and Prognosis for critical variability - Offers technical maintenance actions for the observation and analyses of inspection, monitoring, testing, diagnosis, prognosis and active maintenance actions in wind

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