

A row of white wind turbines stands on a dark blue sea under a light blue sky with soft clouds. The turbines are arranged in a perspective line, receding into the distance.

Robert Bond Randall

Vibration-based Condition Monitoring

Industrial, Automotive and Aerospace Applications



Second Edition

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Vibration Based Condition Monitoring Industrial Aerospace And Automotive Applications

Xiang Xie

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Vibration Based Condition Monitoring Industrial Aerospace And Automotive Applications:

Vibration-based Condition Monitoring Robert Bond Randall, 2021-07-06 Vibration based Condition Monitoring Stay up to date on the newest developments in machine condition monitoring with this brand new resource from an industry leader The newly revised Second Edition of Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications delivers a thorough update to the most complete discussion of the field of machine condition monitoring The distinguished author offers readers new sections on diagnostics of variable speed machines including wind turbines as well as new material on the application of cepstrum analysis to the separation of forcing functions structural model properties and the simulation of machines and faults The book provides improved methods of order tracking based on phase demodulation of reference signals and new methods of determining instantaneous machine speed from the vibration response signal Readers will also benefit from an insightful discussion of new methods of calculating the Teager Kaiser Energy Operator TKEO using Hilbert transform methods in the frequency domain With a renewed emphasis on the newly realized possibility of making virtual instruments readers of Vibration based Condition Monitoring will benefit from the wide variety of new and updated topics like A comprehensive introduction to machine condition monitoring including maintenance strategies condition monitoring methods and an explanation of the basic problem of condition monitoring An exploration of vibration signals from rotating and reciprocating machines including signal classification and torsional vibrations An examination of basic and newly developed signal processing techniques including statistical measures Fourier analysis Hilbert transform and demodulation and digital filtering pointing out the considerable advantages of non causal processing since causal processing gives no benefit for condition monitoring A discussion of fault detection diagnosis and prognosis in rotating and reciprocating machines in particular new methods using fault simulation since big data cannot provide sufficient data for late stage fault development Perfect for machine manufacturers who want to include a machine monitoring service with their product Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications will also earn a place in university and research institute libraries where there is an interest in machine condition monitoring and diagnostics

Vibration-based Condition Monitoring Robert Bond Randall, 2011-02-14 Without doubt the best modern and up to date text on the topic written by one of the world leading experts in the field Should be on the desk of any practitioner or researcher involved in the field of Machine Condition Monitoring Simon Braun Israel Institute of Technology Explaining complex ideas in an easy to understand way Vibration based Condition Monitoring provides a comprehensive survey of the application of vibration analysis to the condition monitoring of machines Reflecting the natural progression of these systems by presenting the fundamental material and then moving onto detection diagnosis and prognosis Randall presents classic and state of the art research results that cover vibration signals from rotating and reciprocating machines basic signal processing techniques fault detection diagnostic techniques and prognostics Developed out of notes for a course in machine condition

monitoring given by Robert Bond Randall over ten years at the University of New South Wales Vibration based Condition Monitoring Industrial Aerospace and Automotive Applications is essential reading for graduate and postgraduate students researchers in machine condition monitoring and diagnostics as well as condition monitoring practitioners and machine manufacturers who want to include a machine monitoring service with their product Includes a number of exercises for each chapter many based on Matlab to illustrate basic points as well as to facilitate the use of the book as a textbook for courses in the topic Accompanied by a website www.wiley.com/go/randall housing exercises along with data sets and implementation code in Matlab for some of the methods as well as other pedagogical aids Authored by an internationally recognised authority in the area of condition monitoring

Vibration-based Condition Monitoring Robert Bond Randall, 2021-06-08 Vibration based Condition Monitoring Stay up to date on the newest developments in machine condition monitoring with this brand new resource from an industry leader The newly revised Second Edition of Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications delivers a thorough update to the most complete discussion of the field of machine condition monitoring The distinguished author offers readers new sections on diagnostics of variable speed machines including wind turbines as well as new material on the application of cepstrum analysis to the separation of forcing functions structural model properties and the simulation of machines and faults The book provides improved methods of order tracking based on phase demodulation of reference signals and new methods of determining instantaneous machine speed from the vibration response signal Readers will also benefit from an insightful discussion of new methods of calculating the Teager Kaiser Energy Operator TKEO using Hilbert transform methods in the frequency domain With a renewed emphasis on the newly realized possibility of making virtual instruments readers of Vibration based Condition Monitoring will benefit from the wide variety of new and updated topics like A comprehensive introduction to machine condition monitoring including maintenance strategies condition monitoring methods and an explanation of the basic problem of condition monitoring An exploration of vibration signals from rotating and reciprocating machines including signal classification and torsional vibrations An examination of basic and newly developed signal processing techniques including statistical measures Fourier analysis Hilbert transform and demodulation and digital filtering pointing out the considerable advantages of non causal processing since causal processing gives no benefit for condition monitoring A discussion of fault detection diagnosis and prognosis in rotating and reciprocating machines in particular new methods using fault simulation since big data cannot provide sufficient data for late stage fault development Perfect for machine manufacturers who want to include a machine monitoring service with their product Vibration based Condition Monitoring Industrial Automotive and Aerospace Applications will also earn a place in university and research institute libraries where there is an interest in machine condition monitoring and diagnostics

Condition Monitoring with Vibration Signals Hosameldin Ahmed, Asoke K. Nandi, 2020-01-07 Provides an extensive up to date treatment of techniques used for machine condition monitoring Clear and

concise throughout this accessible book is the first to be wholly devoted to the field of condition monitoring for rotating machines using vibration signals. It covers various feature extraction, feature selection, and classification methods as well as their applications to machine vibration datasets. It also presents new methods including machine learning and compressive sampling which help to improve safety, reliability, and performance. **Condition Monitoring with Vibration Signals: Compressive Sampling and Learning Algorithms for Rotating Machines** starts by introducing readers to Vibration Analysis Techniques and Machine Condition Monitoring (MCM). It then offers readers sections covering Rotating Machine Condition Monitoring using Learning Algorithms, Classification Algorithms, and New Fault Diagnosis Frameworks designed for MCM. Readers will learn signal processing in the time-frequency domain, methods for linear subspace learning, and the basic principles of the learning method Artificial Neural Network (ANN). They will also discover recent trends of deep learning in the field of machine condition monitoring, new feature learning frameworks based on compressive sampling, subspace learning techniques for machine condition monitoring, and much more. Covers the fundamental as well as the state-of-the-art approaches to machine condition monitoring, guiding readers from the basics of rotating machines to the generation of knowledge using vibration signals. Provides new methods including machine learning and compressive sampling which offer significant improvements in accuracy with reduced computational costs. Features learning algorithms that can be used for fault diagnosis and prognosis. Includes previously and recently developed dimensionality reduction techniques and classification algorithms. **Condition Monitoring with Vibration Signals: Compressive Sampling and Learning Algorithms for Rotating Machines** is an excellent book for research students, postgraduate students, industrial practitioners, and researchers. **Vibration-Based Condition**

Monitoring of Wind Turbines Tomasz Barszcz, 2018-12-04. This book describes in detail different types of vibration signals and the signal processing methods including signal resampling and signal envelope used for condition monitoring of drivetrains. A special emphasis is placed on wind turbines and on the fact that they work in highly varying operational conditions. The core of the book is devoted to cutting-edge methods used to validate and process vibration data in these conditions. Key case studies where advanced signal processing methods are used to detect failures of gearboxes and bearings of wind turbines are described and discussed in detail. Vibration sensors, SCADA, Supervisory Control and Data Acquisition, portable data analyzers, and online condition monitoring systems are also covered. This book offers a timely guide to both researchers and professionals working with wind turbines but also other machines and to graduate students willing to extend their knowledge in the field of vibration analysis. *Handbook of Research on Industrial Advancement in Scientific*

Knowledge Diaz, Vicente González-Prida, Bonilla, Jesus Pedro Zamora, 2019-01-18. In a society that praises and promotes technological advancement, it becomes increasingly essential to review the effects of such rapid technological growth. New high-tech advances need to be examined to determine what they mean to science, society, and industry, along with the benefits and challenges they present. *The Handbook of Research on Industrial Advancement in Scientific Knowledge* addresses the

intersection of technology and science where engineering considerations mathematical approaches and management tools provide a better understanding and awareness of Industry 4.0 while also taking into account the impact on current society. This publication identifies methodologies and applications related to decision making risk and uncertainty and design and development not only on scientific and industrial topics but also on social and ethical matters. It is designed for engineers entrepreneurs academicians researchers managers and students.

Intelligent Fault Diagnosis and Accommodation

Control Sunan Huang, Kok Kiong Tan, Poi Voon Er, Tong Heng Lee, 2020-03-17 Control systems include many components such as transducers sensors actuators and mechanical parts. These components are required to be operated under some specific conditions. However, due to prolonged operations or harsh operating environment, the properties of these devices may degrade to an unacceptable level, causing more regular fault occurrences. It is therefore necessary to diagnose faults and provide the fault accommodation control which compensates for the fault of the component by substituting a configuration of redundant elements so that the system continues to operate satisfactorily. In this book, we present a result of several years of work in the area of fault diagnosis and fault accommodation control. It aims at information estimate methods when faults occur. The book uses the model built from the plant or process to detect and isolate failures in contrast to traditional hardware or statistical technologies dealing with failures. It presents model based learning and design technologies for fault detection isolation and identification as well as fault tolerant control. These models are also used to analyse the fault detectability and isolability conditions and discuss the stability of the closed loop system. It is intended to report new technologies in the area of fault diagnosis covering fault analysis and control strategies of design for various applications. The book addresses four main schemes: modelling of actuator or sensor faults, fault detection and isolation, fault identification and fault reconfiguration, accommodation control. It also covers application issues in the monitoring control of actuators, providing several interesting case studies for more application oriented readers.

European Workshop on Structural Health

Monitoring Piervincenzo Rizzo, Alberto Milazzo, 2021-01-08 This volume gathers the latest advances, innovations and applications in the field of structural health monitoring (SHM) and more broadly in the fields of smart materials and intelligent systems. The volume covers highly diverse topics including signal processing, smart sensors, autonomous systems, remote sensing and support UAV platforms for SHM, Internet of Things, Industry 4.0 and SHM for civil structures and infrastructures. The contributions, which are published after a rigorous international peer review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists. The contents of this volume reflect the outcomes of the activities of EWSHM European Workshop on Structural Health Monitoring in 2020.

Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and

Applications Suresh Chandra Satapathy, Vikrant Bhateja, Siba K. Udgata, Prasant Kumar Pattnaik, 2017-03-15 The book is a collection of high quality peer reviewed research papers presented at International Conference on Frontiers of Intelligent

Computing Theory and applications FICTA 2016 held at School of Computer Engineering KIIT University Bhubaneswar India during 16 17 September 2016 The book presents theories methodologies new ideas experiences and applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science electronics electrical and mechanical engineering *Modelling and Simulation of Complex Systems for Sustainable Energy Efficiency* Ahmed Hammami,Philippus Stephanus Heyns,Stephan Schmidt,Fakher Chaari,Mohamed Slim Abbes,Mohamed Haddar,2021-08-21 This book provides readers with an overview of recent theories and methods for studying complex mechanical systems used in energy production such as wind turbines but not limited to them The emphasis is put on strategies for increasing energy efficiency and on recent industrial applications Topics cover dynamics and vibration vibroacoustics engineering design modelling and simulation fault diagnostics signal processing and prognostics The book is based on peer review contributions and invited talks presented at the first International Workshop on MOdelling and Simulation of COmplex Systems for Sustainable Energy Efficiency MOSCOSSEE 2021 held online on February 25 26 2021 and organized by the Laboratory of Mechanics Modelling and Production LA2MP from University of Sfax Tunisia and the Department of Mechanical and Aeronautical engineering Centre of Asset Integrity Management C AIM from University of Pretoria South Africa By offering authoritative information on innovative methods and tools for application in renewable energy production it provides a valuable resource to both academics and professionals and a bridge to facilitate communication between the two groups

Prognostics and Remaining Useful Life (RUL) Estimation Diego Galar,Kai Goebel,Peter Sandborn,Uday Kumar,2021-12-27 Maintenance combines various methods tools and techniques in a bid to reduce maintenance costs while increasing the reliability availability and security of equipment Condition based maintenance CBM is one such method and prognostics forms a key element of a CBM program based on mathematical models for predicting remaining useful life RUL Prognostics and Remaining Useful Life RUL Estimation Predicting with Confidence compares the techniques and models used to estimate the RUL of different assets including a review of the relevant literature on prognostic techniques and their use in the industrial field This book describes different approaches and prognosis methods for different assets backed up by appropriate case studies FEATURES Presents a compendium of RUL estimation methods and technologies used in predictive maintenance Describes different approaches and prognosis methods for different assets Includes a comprehensive compilation of methods from model based and data driven to hybrid Discusses the benchmarking of RUL estimation methods according to accuracy and uncertainty depending on the target application the type of asset and the forecast performance expected Contains a toolset of methods and a way of deployment aimed at a versatile audience This book is aimed at professionals senior undergraduates and graduate students in all interdisciplinary engineering streams that focus on prognosis and maintenance **Condition Monitoring Algorithms in MATLAB®** Adam Jablonski,2021-01-20 This book offers the first comprehensive and practice oriented guide to condition monitoring algorithms in MATLAB After a concise

introduction to vibration theory and signal processing techniques the attention is moved to the algorithms Each signal processing algorithm is presented in depth from the theory to the application and including extensive explanations on how to use the corresponding toolbox in MATLAB In turn the book introduces various techniques for synthetic signals generation as well as vibration based analysis techniques for large data sets A practical guide on how to directly access data from industrial condition monitoring systems CMS using MATLAB NET Libraries is also included Bridging between research and practice this book offers an extensive guide on condition monitoring algorithms to both scholars and professionals Condition Monitoring Algorithms in MATLAB is a great resource for anyone in the field of condition monitoring It is a unique as it presents the theory and a number of examples in Matlab which greatly improve the learning experience It offers numerous examples of coding styles in Matlab thus supporting graduate students and professionals writing their own codes Dr Eric Bechhoefer Founder and CEO of GPMS Developer of the Foresight MX Health and Usage Monitoring System

Reliability and Maintainability Assessment of Industrial Systems Mangey Ram, Hoang Pham, 2022-05-05 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

Electro-Mechanical Actuators for the More Electric Aircraft Mirko Mazzoleni, Gianpietro Di Rito, Fabio Previdi, 2021-01-19 This book presents recent results on fault diagnosis and condition monitoring of airborne electromechanical actuators illustrating both algorithmic and hardware design solutions to enhance the reliability of onboard more electric aircraft The book begins with an introduction to the current trends in the development of electrically powered actuation systems for aerospace applications Practical examples are proposed to help present approaches to reliability availability maintainability and safety analysis of airborne equipment The terminology and main strategies for fault diagnosis and condition monitoring are then reviewed The core of the book focuses on the presentation of relevant case studies of fault diagnosis and monitoring design for airborne electromechanical actuators using different techniques The last part of the book is devoted to a summary of lessons learned and practical suggestions for the design of fault diagnosis solutions of complex airborne systems The book is written with the idea of providing practical guidelines on the development of fault diagnosis and monitoring algorithms for airborne electromechanical actuators It will be of interest to practitioners in aerospace mechanical electronic reliability and systems engineering as well as researchers and postgraduates interested in dynamical systems automatic control and safety critical systems Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid

development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

Cyclostationarity: Theory and Methods III Fakher Chaari, Jacek Leskow, Antonio Napolitano, Radoslaw Zimroz, Agnieszka Wylomanska, 2017-02-25 This book gathers contributions presented at the 9th Workshop on Cyclostationary Systems and Their Applications held in Grdek nad Dunajcem Poland in February 2016 It includes both theory oriented and practice oriented chapters The former focus on heavy tailed time series and processes PAR models rational spectra for PARMA processes covariance invariant analysis change point problems and subsampling for time series as well as the fraction of time approach GARMA models and weak dependence In turn the latter report on case studies of various mechanical systems and on stochastic and statistical methods especially in the context of damage detection The book provides students researchers and professionals with a timely guide to cyclostationary systems nonstationary processes and relevant engineering applications

UK Wind Energy Technologies Simon Hogg, Christopher Crabtree, 2016-08-05 Phase 1 of the EPSRC SUPERGEN Wind programme began in March 2006 and work continued under Phase 2 until March 2014 The strategic aim was to re establish a strong research community in wind energy technologies across the UK s leading academic and industrial research organisations UK Wind Energy Technologies gives a comprehensive overview of the range of wind energy research undertaken in the UK under Phases 1 2 to achieve this goal Specific topics covered in the book include wind resource assessment turbine array layout environmental interactions control of turbines drive train reliability and condition monitoring turbine array electrical connection power transmission to grid assessment of operations and maintenance strategies and the analysis of turbine foundations and structures Since the completion of Phase 2 the Supergen Wind consortium partners have formed a networking Hub which is now the principal national coordinating body for academic research into wind energy in the UK This book will be of interest to researchers and engineers from industry and academia and also provides workers from other countries with an overview of the range of activity within the UK resulting from the SUPERGEN Wind programme to date

Structural Health Monitoring Charles R. Farrar, Keith Worden, 2012-11-19 Written by global leaders and pioneers in the field this book is a must have read for researchers practicing engineers and university faculty working in SHM Structural Health Monitoring A Machine Learning Perspective is the first comprehensive book on the general problem of structural health monitoring The authors renowned experts in the field consider structural health monitoring in a new manner by casting the problem in the context of a machine learning statistical pattern recognition paradigm first explaining the paradigm in general terms then explaining the process in detail with further insight provided via numerical and experimental studies of laboratory test specimens and in situ structures This paradigm provides a comprehensive framework for developing SHM solutions Structural Health Monitoring A Machine Learning Perspective makes extensive use of the authors detailed surveys of the technical literature the experience they have gained from teaching numerous courses on this subject and the results of performing numerous analytical and

experimental structural health monitoring studies Considers structural health monitoring in a new manner by casting the problem in the context of a machine learning statistical pattern recognition paradigm Emphasises an integrated approach to the development of structural health monitoring solutions by coupling the measurement hardware portion of the problem directly with the data interrogation algorithms Benefits from extensive use of the authors detailed surveys of 800 papers in the technical literature and the experience they have gained from teaching numerous short courses on this subject

Handbook of Experimental Structural Dynamics Randall Allemang, Peter Avitabile, 2022-06-30 The SEM Handbook of Experimental Structural Dynamics stands as a comprehensive overview and reference for its subject applicable to workers in research product design and manufacture and practice The Handbook is devoted primarily to the areas of structural mechanics served by the Society for Experimental Mechanics IMAC community such as modal analysis rotating machinery structural health monitoring shock and vibration sensors and instrumentation aeroelasticity ground testing finite element techniques model updating sensitivity analysis verification and validation experimental dynamics sub structuring quantification of margin and uncertainty and testing of civil infrastructure Chapters offer comprehensive detailed coverage of decades of scientific and technologic advance and all demonstrate an experimental perspective Several sections specifically discuss the various types of experimental testing and common practices utilized in the automotive aerospace and civil structures industries History of Experimental Structural Mechanics DIC Methods Dynamic Photogrammetry LDV Methods Applied Digital Signal Processing Introduction to Spectral Basic Measurements Structural Measurements FRF Random and Shock Testing Rotating System Analysis Methods Sensors Signal Conditioning Instrumentation Design of Modal Tests Experimental Modal Methods Experimental Modal Parameter Evaluation Operating Modal Analysis Methods Analytical Numerical Substructuring Finite Element Model Correlation Model Updating Damping of Materials and Structures Model Calibration and Validation in Structures Uncertainty Quantification UQ QMU and Statistics Nonlinear System Analysis Methods Experimental Structural Health Monitoring and Damage Detection Experimental Substructure Modeling Modal Modeling Response Impedance Modeling Nonlinear Normal Mode Analysis Techniques Analytical Modal Modeling with Nonlinear Connection Elements Analytical Acoustics of Structural Systems VibroAcoustics Automotive Structural Testing Civil Structural Testing Aerospace Perspective for Modeling and Validation Sports Equipment Testing Applied Math for Experimental Structural Mechanics Contributions present important theory behind relevant experimental methods as well as application and technology Topical authors emphasize and dissect proven methods and offer detail beyond a simple review of the literature Additionally chapters cover practical needs of scientists and engineers who are new to the field In most cases neither the pertinent theory nor in particular the practical issues have been presented formally in current academic textbooks Each chapter in the Handbook represents a must read for someone new to the subject or for someone returning to the field after an absence Reference lists in each chapter consist of the seminal papers in the literature This Handbook

stands in parallel to the SEM Handbook of Experimental Solid Mechanics where this Handbook focuses on experimental dynamics of structures at a macro scale often involving multiple components and materials where the SEM Handbook of Experimental Solid Mechanics focuses on experimental mechanics of materials at a nano scale and or micro scale

Advances in Risk and Reliability Modelling and Assessment Prabhakar V. Varde, Gopika Vinod, N. S. Joshi, 2024-05-31 This book presents the proceedings of the 5th International Conference on Reliability Safety Hazard 2024 held in Mumbai during February 21-24, 2024. It covers the latest advances in artificial intelligence and machine learning in development of risk conscious culture. Various topics covered in this volume are reliability prediction, precursor event analysis, fuzzy reliability, structural reliability, passive system reliability, digital system reliability, risk informed approach to decision making, dynamic PSA, uncertainty and sensitivity modeling among others. The book is a valuable resource for researchers and professionals working in both academia and industry in the areas of complex systems, safety, critical systems and risk based engineering.

Bearing Technology Pranav H. Darji, 2017-05-31 In the twenty first century bearings are expected to perform better in the form of various operating conditions that is from low speed to extremely high speed and from low load to huge load applications. The expectations from the field of bearing technology are great. During the recent years we have been witnessing the development of a new generation of mechanical systems that are highly miniaturized and very sophisticated yet extremely robust. Technological progress creates increasingly arduous conditions for rolling mechanisms.

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