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Wavelets

Theory and Applications
for Manufacturing

 Springer

Wavelets Theory And Applications For Manufacturing

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Hering, Muddu Madakyaru, abdelkader
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Wavelets Robert X Gao,Ruqiang Yan,2010-12-07 Wavelets Theory and Applications for Manufacturing presents a systematic description of the fundamentals of wavelet transform and its applications Given the widespread utilization of rotating machines in modern manufacturing and the increasing need for condition based as opposed to fix interval intelligent maintenance to minimize machine down time and ensure reliable production it is of critical importance to advance the science base of signal processing in manufacturing This volume also deals with condition monitoring and health diagnosis of rotating machine components and systems such as bearings spindles and gearboxes while also Providing a comprehensive survey on wavelets specifically related to problems encountered in manufacturing Discussing the integration of wavelet transforms with other soft computing techniques such as fuzzy logic for machine defect and severity classification Showing how to custom design wavelets for improved performance in signal analysis Focusing on wavelet transform as a tool specifically applied and designed for applications in manufacturing Wavelets Theory and Applications for Manufacturing presents material appropriate for both academic researchers and practicing engineers working in the field of manufacturing

Wavelet Theory and Its Applications Sudhakar Radhakrishnan,2018-10-03 This book is intended to attract the attention of practitioners and researchers in the academia and industry interested in challenging paradigms of wavelets and its application with an emphasis on the recent technological developments All the chapters are well demonstrated by various researchers around the world covering the field of mathematics and applied engineering This book highlights the current research in the usage of wavelets in different areas such as biomedical analysis fringe pattern analysis image applications network data transfer applications and optical measurement techniques The entire work available in the book is mainly focusing on researchers who can do quality research in the area of the usage of wavelets in related fields Each chapter is an independent research which will definitely motivate the young researchers to ponder on These 12 chapters available in four sections will be an eye opener for all who are doing systematic research in these fields

Wavelet Theory Somayeh Mohammady,2021-02-24 The wavelet is a powerful mathematical tool that plays an important role in science and technology This book looks at some of the most creative and popular applications of wavelets including biomedical signal processing image processing communication signal processing Internet of Things IoT acoustical signal processing financial market data analysis energy and power management and COVID 19 pandemic measurements and calculations The editor s personal interest is the application of wavelet transform to identify time domain changes on signals and corresponding frequency components and in improving power amplifier behavior

Wavelet Transform and Some of Its Real-World

Applications Dumitru Baleanu,2015-12-09 The book contains six chapters The use of the progressive regressive strategy for biometrical authentication through the use of human gait and face images was investigated A new lossy image compression technique that uses singular value decomposition and wavelet difference reduction technique was proposed The best wavelet

packet based selection algorithm and its application in image denoising was discussed The scaling factor threshold estimator in different color models using a discrete wavelet transform for steganographic algorithms was presented The extraction of features appearing in current signal using wavelet analysis when there is rotor fault of eccentricity and broken rotor bar was debated The application of the empirical wavelet transform for seismic anomalies detection in ultralow frequency geomagnetic signals was illustrated

Advances in Manufacturing Technology XXXIV Keith Case, 2021-09-15 The development of technologies and management of operations is key to sustaining the success of manufacturing businesses and since the late 1970s the International Conference on Manufacturing Research ICMR has been a major annual event for academics and industrialists engaged in manufacturing research The conference is renowned as a friendly and inclusive platform that brings together a broad community of researchers who share a common goal This book presents the proceedings of ICMR2021 the 18th International Conference on Manufacturing Research incorporating the 35th National Conference on Manufacturing Research and held in Derby UK from 7 to 10 September 2021 The theme of the ICMR2021 conference is digital manufacturing Within the context of Industrial 4.0 ICMR2021 provided a platform for researchers academics and industrialists to share their vision knowledge and experience and to discuss emerging trends and new challenges in the field The 60 papers included in the book are divided into 10 parts each covering a different area of manufacturing research These are digital manufacturing smart manufacturing additive manufacturing robotics and industrial automation composite manufacturing machining processes product design and development information and knowledge management lean and quality management and decision support and production optimization The book will be of interest to all those involved in developing and managing new techniques in manufacturing industry

Structural Health Monitoring Ruqiang Yan, Xuefeng Chen, Subhas Chandra Mukhopadhyay, 2017-04-29 This book highlights the latest advances and trends in advanced signal processing such as wavelet theory time frequency analysis empirical mode decomposition compressive sensing and sparse representation and stochastic resonance for structural health monitoring SHM Its primary focus is on the utilization of advanced signal processing techniques to help monitor the health status of critical structures and machines encountered in our daily lives wind turbines gas turbines machine tools etc As such it offers a key reference guide for researchers graduate students and industry professionals who work in the field of SHM

Optical Remote Sensing of Ocean Hydrodynamics Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1.4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of

complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean

Control and Optimisation of Process Systems, 2013-04-25 Advances in Chemical Engineering was established in 1960 and is the definitive serial in the area It is one of great importance to organic chemists polymer chemists and many biological scientists Written by established authorities in the field the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties This volume focuses on control and optimisation of process systems Advances in Chemical Engineering was established in 1960 and is the definitive serial in the area It is one of great importance to organic chemists polymer chemists and many biological scientists Written by established authorities in the field the comprehensive reviews combine descriptive chemistry and mechanistic insight and yield an understanding of how the chemistry drives the properties Focuses on control and optimization of process systems

Design, Applications, and Maintenance of Cyber-Physical Systems Rea, Pierluigi, Ottaviano, Erika, Machado, José, Antosz, Katarzyna, 2021-06-25 Cyber physical systems CPS can be defined as systems in which physical objects are represented in the digital world and integrated with computation storage and communication capabilities and are connected to each other in a network The goal in the use of the CPS is integrating the dynamics of the physical processes with those of the software and networking providing abstractions and modelling design and analysis techniques for the integrated whole The notion of CPS is linked to concepts of robotics and sensor networks with intelligent systems proper of computational intelligence leading the pathway Recent advances in science and engineering improve the link between computational and physical elements by means of intelligent systems increasing the adaptability autonomy efficiency functionality reliability safety and usability of cyber physical systems The potential of cyber physical systems will spread to several directions including but not limited to intervention precision manufacturing operations in dangerous or inaccessible environments coordination efficiency Maintenance 4 0 and augmentation of human capabilities Design Applications and Maintenance of Cyber Physical Systems gives insights about CPS as tools for integrating the dynamics of the physical processes with those of software and networking providing abstractions and modelling design and analysis techniques for their smart manufacturing interoperation The book will have an impact upon the research on

robotics mechatronics integrated intelligent multibody systems Industry 4 0 production systems management and maintenance decision support systems and Maintenance 4 0 The chapters discuss not only the technologies involved in CPS but also insights into how they are used in various industries This book is ideal for engineers practitioners researchers academicians and students who are interested in a deeper understanding of cyber physical systems CPS their design application and maintenance with a special focus on modern technologies in Industry 4 0 and Maintenance 4 0 Statistical Process Monitoring Using Advanced Data-Driven and Deep Learning Approaches Fouzi Harrou,Ying Sun,Amanda S. Hering,Muddu Madakyaru,abdelkader Dairi,2020-07-03 Statistical Process Monitoring Using Advanced Data Driven and Deep Learning Approaches tackles multivariate challenges in process monitoring by merging the advantages of univariate and traditional multivariate techniques to enhance their performance and widen their practical applicability The book proceeds with merging the desirable properties of shallow learning approaches such as a one class support vector machine and k nearest neighbours and unsupervised deep learning approaches to develop more sophisticated and efficient monitoring techniques Finally the developed approaches are applied to monitor many processes such as waste water treatment plants detection of obstacles in driving environments for autonomous robots and vehicles robot swarm chemical processes continuous stirred tank reactor plug flow reactor and distillation columns ozone pollution road traffic congestion and solar photovoltaic systems Uses a data driven based approach to fault detection and attribution Provides an in depth understanding of fault detection and attribution in complex and multivariate systems Familiarises you with the most suitable data driven based techniques including multivariate statistical techniques and deep learning based methods Includes case studies and comparison of different methods

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