

John Watton

Modelling, Monitoring and Diagnostic Techniques for Fluid Power Systems

 Springer

Modelling Monitoring And Diagnostic Techniques For Fluid Power Systems

J. Watton



Modelling Monitoring And Diagnostic Techniques For Fluid Power Systems:

Modelling, Monitoring and Diagnostic Techniques for Fluid Power Systems John Watton, 2007-03-24 This book covers the background theory of fluid power and indicates the range of concepts needed for a modern approach to condition monitoring and fault diagnosis The theory is leavened by 15 years worth of practical measurements by the author working with major fluid power companies and real industrial case studies Heavily supported with examples drawn from real industrial plants the methods in this book have been shown to work **Fundamentals of Fluid Power Control J.**

Watton, 2009-08-24 This is an undergraduate text reference for applications in which large forces with fast response times are achieved using hydraulic control *DSmT-based three-layer method using multi-classifier to detect faults in hydraulic systems* Xiancheng Ji, Yan Ren, Hesheng Tang, Jiawei Xiang, Fault identification in hydraulic valves is essential in maintaining the reliability and security of hydraulic systems Due to the nonlinear characteristics of hydraulic systems under noisy working conditions it is difficult to extract fault features from vibration signals collected from the surface of the valve body Therefore a DSmT based three layer method using multi classifier is proposed to detect multiple faults occurred in hydraulic valves

Fault-Diagnosis Applications Rolf Isermann, 2011-04-06 Supervision condition monitoring fault detection fault diagnosis and fault management play an increasing role for technical processes and vehicles in order to improve reliability availability maintenance and lifetime For safety related processes fault tolerant systems with redundancy are required in order to reach comprehensive system integrity This book is a sequel of the book Fault Diagnosis Systems published in 2006 where the basic methods were described After a short introduction into fault detection and fault diagnosis methods the book shows how these methods can be applied for a selection of 20 real technical components and processes as examples such as Electrical drives DC AC Electrical actuators Fluidic actuators hydraulic pneumatic Centrifugal and reciprocating pumps Pipelines leak detection Industrial robots Machine tools main and feed drive drilling milling grinding Heat exchangers Also realized fault tolerant systems for electrical drives actuators and sensors are presented The book describes why and how the various signal model based and process model based methods were applied and which experimental results could be achieved In several cases a combination of different methods was most successful The book is dedicated to graduate students of electrical mechanical chemical engineering and computer science and for engineers **Classification of Wear State for**

a Positive Displacement Pump Using Deep Machine Learning Jarosław Konieczny, Waldemar Łatas, Jerzy Stojek, 2023-01-01 Hydraulic power systems are commonly used in heavy industry usually highly energy intensive and are often associated with high power losses Designing a suitable system to allow an early assessment of the wear conditions of components in a hydraulic system e g an axial piston pump can effectively contribute to reducing energy losses during use This paper presents the application of a deep machine learning system to determine the efficiency state of a multi piston positive displacement pump Such pumps are significant in high power hydraulic systems The correct operation of the entire

hydraulic system often depends on its proper functioning The wear and tear of individual pump components usually leads to a decrease in the pump s operating pressure and volumetric losses subsequently resulting in a decrease in overall pump efficiency and increases in vibration and pump noise This in turn leads to an increase in energy losses throughout the hydraulic system which releases excess heat Typical failures of the discussed pumps and their causes are described after reviewing current research work using deep machine learning Next the test bench on which the diagnostic experiment was conducted and the selected operating signals that were recorded are described The measured signals were subjected to a time frequency analysis and their features calculated in terms of the time and frequency domains underwent a significance ranking using the minimum redundancy maximum relevance MRMR algorithm The next step was to design a neural network structure to classify the wear state of the pump and to test and evaluate the effectiveness of the network s recognition of the pump s condition The whole study was summarized with conclusions

Nonlinear Systems ,2020-05-13 The editors of this book have incorporated contributions from a diverse group of leading researchers in the field of nonlinear systems To enrich the scope of the content this book contains a valuable selection of works on fractional differential equations The book aims to provide an overview of the current knowledge on nonlinear systems and some aspects of fractional calculus The main subject areas are divided into two theoretical and applied sections Nonlinear systems are useful for researchers in mathematics applied mathematics and physics as well as graduate students who are studying these systems with reference to their theory and application This book is also an ideal complement to the specific literature on engineering biology health science and other applied science areas The opportunity given by IntechOpen to offer this book under the open access system contributes to disseminating the field of nonlinear systems to a wide range of researchers

Smart Flow Control Processes in Micro Scale Volume 2 Bengt Sundén,Jin-yuan Qian,Junhui Zhang ,2020-12-29 In recent years microfluidic devices with a large surface to volume ratio have witnessed rapid development allowing them to be successfully utilized in many engineering applications A smart control process has been proposed for many years while many new innovations and enabling technologies have been developed for smart flow control especially concerning smart flow control at the microscale This Special Issue aims to highlight the current research trends related to this topic presenting a collection of 33 papers from leading scholars in this field Among these include studies and demonstrations of flow characteristics in pumps or valves as well as dynamic performance in roiling mill systems or jet systems to the optimal design of special components in smart control systems

Reliability Engineering Elsayed A. Elsayed,2021-01-07 Get a firm handle on the engineering reliability process with this insightful and complete resource Named one of the Best Industrial Management eBooks of All Time by BookAuthority As featured on CNN Forbes and Inc BookAuthority identifies and rates the best books in the world based on recommendations by thought leaders and experts The newly and thoroughly revised 3rd Edition of Reliability Engineering delivers a comprehensive and insightful analysis of this crucial field Accomplished author professor and engineer Elsayed A

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Numerical Simulation of Power Plants and Firing Systems Heimo Walter, Bernd Eppe, 2017-04-18 The book comprises the fundamentals of the numerical simulation of fluid flows as well as the modelling of a power plant and plant components The fundamental equations for heat and mass transfer will be prepared for the application in the numerical simulation Selected numerical methods will be discussed in detail The book will deal with the gas as well as with the water steam flow Regulation and controller simplified models and hybrid models as well as the validation of measurement data are also included in the book

Modeling and Simulation of Energy Systems Thomas A. Adams II, 2019-11-06 Energy Systems Engineering is one of the most exciting and fastest growing fields in engineering Modeling and simulation plays a key role in Energy Systems Engineering because it is the primary basis on which energy system design control optimization and analysis are based This book contains a specially curated collection of recent research articles on the modeling and simulation of energy systems written by top experts around the world from universities and research labs such as Massachusetts Institute of Technology Yale University Norwegian University of Science and Technology National Energy Technology Laboratory of the US Department of Energy University of Technology Sydney McMaster University Queens University Purdue University the University of Connecticut Technical University of Denmark the University of Toronto Technische Universität Berlin Texas A M the University of Pennsylvania and many more The key research themes covered include energy systems design control systems flexible operations operational strategies and systems analysis The addressed areas of application include electric power generation refrigeration cycles natural gas liquefaction shale gas treatment

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