

John Watton

Modelling, Monitoring and Diagnostic Techniques for Fluid Power Systems

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Modelling Monitoring And Diagnostic Techniques For Fluid Power Systems

**United States. Energy Research and
Development Administration**



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

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

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

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 rolling mill systems or jet systems to the optimal design of special components in smart control systems

Intelligent Condition Monitoring and Diagnosis Systems Kesheng Wang, 2003 This work covers intelligent system development In order to survive in an uncertain environment it is necessary to bring artificial neural networks fuzzy logic systems genetic algorithms and expert systems together to make a condition monitoring and diagnosis system more reliable and cost effective than a traditional one The focus of intelligent condition monitoring and diagnosis system is on practical applications of intelligent techniques The text provides practicing engineers and scientists with the information they need to solve the problems in both industry and academia

American Book Publishing Record, 2007 *Scientific and Technical Aerospace Reports*, 1994

Innovations in Fluid Power C. R. Burrows, K. A. Edge, 1995-12-26 Fluid power of Bath Cover Includes bibliographical references and index

Applied Mechanics Reviews, 1995 **Nuclear Science Abstracts**, 1976-05 **Fossil Energy Update**, 1977 Energy Research Abstracts, 1986 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977

Program Solicitation, 1997 *System Health Management* Stephen B. Johnson, Thomas J. Gormley, Seth S. Kessler, Charles D. Mott, Ann Patterson-Hine, Karl M. Reichard, Philip S. Scandura, Jr., 2011-06-01 System Health Management with Aerospace Applications provides the first complete reference text for System Health Management SHM the set of technologies and processes used to improve system dependability Edited by a team of engineers and consultants with SHM design development and research experience from NASA industry and academia each heading up sections in their own areas of expertise and co coordinating contributions from leading experts the book collates together in one text the state of the art in SHM research technology and applications It has been written primarily as a

reference text for practitioners for those in related disciplines and for graduate students in aerospace or systems engineering There are many technologies involved in SHM and no single person can be an expert in all aspects of the discipline System Health Management with Aerospace Applications provides an introduction to the major technologies issues and references in these disparate but related SHM areas Since SHM has evolved most rapidly in aerospace the various applications described in this book are taken primarily from the aerospace industry However the theories techniques and technologies discussed are applicable to many engineering disciplines and application areas Readers will find sections on the basic theories and concepts of SHM how it is applied in the system life cycle architecture design verification and validation etc the most important methods used reliability quality assurance diagnostics prognostics etc and how SHM is applied in operations commercial aircraft launch operations logistics etc to subsystems electrical power structures flight controls etc and to system applications robotic spacecraft tactical missiles rotorcraft etc

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