

FLUID POWER PUMPS & MOTORS

ANALYSIS, DESIGN, AND CONTROL

NOAH D. MANRING

Fluid Power Pumps And Motors Analysis Design And Control

**Jarosław Konieczny, Waldemar
Łatas, Jerzy Stojek**



Fluid Power Pumps And Motors Analysis Design And Control:

Fluid Power Pumps and Motors: Analysis, Design and Control Noah D. Manring, 2013-07-22 A COMPLETE GUIDE TO FLUID POWER PUMPS AND MOTORS Written by an expert in the field of fluid power this book provides proven methods for analyzing designing and controlling high performance axial piston swash plate type machinery Fluid Power Pumps and Motors Analysis Design and Control offers a comprehensive mechanical analysis of hydrostatic machines and presents meticulous design guidelines for machine components Detailed diagrams and useful formulas are included throughout Using the results and techniques employed in this practical resource will reduce product delivery lead time and costs to increase overall efficiency COVERAGE INCLUDES Fluid properties Fluid mechanics Mechanical analysis Piston pressure Steady state results Machine efficiency Designing a cylinder block valve plate piston slipper swash plate and shaft Displacement controlled pumps Pressure controlled pumps

Fluid Power Pumps and the Electrification Samuel Kärnell, 2020-05-25 More and more vehicles are being electrified Mobile working machines and heavy trucks are not excluded and these machines are often hydraulically intense Electrification entails new requirements for the hydraulic system and its components and these requirements must be taken into consideration Hydraulic systems have looked similar for a long time but now there is an opportunity to advance Many things change when a diesel engine is replaced with an electric motor For example variable speed control becomes more relevant electric regeneration becomes possible and the use of multiple prime movers becomes an attractive alternative The noise from the hydraulic system will also be more noticeable when the diesel engine is gone Furthermore the introduction of batteries to the system makes the energy more valuable since batteries are heavy and costly compared to a diesel tank Therefore it is commercially viable to invest in the hydraulic system This thesis revolves around the heart of the hydraulic system that also is the root of all evil That is the pump Traditionally a pump has had either a fixed displacement or a continuously variable displacement Here the focus is on something in between namely a pump with discrete displacement The idea of discrete displacement is far from unique but has not been investigated in detail in combination with variable speed before In this thesis a novel design for a quiet pump with discrete displacement is presented and analysed The results show that discrete displacement is relevant from an energy perspective for machines working extensively at high pressure levels and with low flow rates and that a few discrete values are enough to make a significant difference However for other cycles the possible energy gains are very limited but the discrete displacement can be a valuable feature if downsizing the electric machine is of interest

Hydraulic Fluid Power Andrea Vacca, Germano Franzoni, 2021-04-19 HYDRAULIC FLUID POWER LEARN MORE ABOUT HYDRAULIC TECHNOLOGY IN HYDRAULIC SYSTEMS DESIGN WITH THIS COMPREHENSIVE RESOURCE Hydraulic Fluid Power provides readers with an original approach to hydraulic technology education that focuses on the design of complete hydraulic systems Accomplished authors and researchers Andrea Vacca and Germano Franzoni begin by describing the foundational principles of hydraulics and the

basic physical components of hydraulics systems They go on to walk readers through the most practical and useful system concepts for controlling hydraulic functions in modern state of the art systems Written in an approachable and accessible style the book s concepts are classified analyzed presented and compared on a system level The book also provides readers with the basic and advanced tools required to understand how hydraulic circuit design affects the operation of the equipment in which it s found focusing on the energy performance and control features of each design architecture Readers will also learn how to choose the best design solution for any application Readers of Hydraulic Fluid Power will benefit from Approaching hydraulic fluid power concepts from an outside in perspective emphasizing a problem solving orientation Abundant numerical examples and end of chapter problems designed to aid the reader in learning and retaining the material A balance between academic and practical content derived from the authors experience in both academia and industry Strong coverage of the fundamentals of hydraulic systems including the equations and properties of hydraulic fluids Hydraulic Fluid Power is perfect for undergraduate and graduate students of mechanical agricultural and aerospace engineering as well as engineers designing hydraulic components mobile machineries or industrial systems

Control of Fluid Power D. McCloy, Hugh Robert Martin, 1980

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

Fundamentals of Fluid Power Control John Watton, 2009-08-24 This exciting reference text is concerned with fluid power control It is an ideal reference for the practising engineer and a textbook for advanced courses in fluid

power control In applications in which large forces and or torques are required often with a fast response time oil hydraulic control systems are essential They excel in environmentally difficult applications because the drive part can be designed with no electrical components and they almost always have a more competitive power weight ratio compared to electrically actuated systems Fluid power systems have the capability to control several parameters such as pressure speed position and so on to a high degree of accuracy at high power levels In practice there are many exciting challenges facing the fluid power engineer who now must preferably have a broad skill set

Fluid Power Circuits and Controls John S. Cundiff, Michael F. Kocher, 2019-12-05 Fluid Power Circuits and Controls Fundamentals and Applications Second Edition is designed for a first course in fluid power for undergraduate engineering students After an introduction to the design and function of components students apply what they've learned and consider how the component operating characteristics interact with the rest of the circuit The Second Edition offers many new worked examples and additional exercises and problems in each chapter Half of these new problems involve the basic analysis of specific elements and the rest are design oriented emphasizing the analysis of system performance The envisioned course does not require a controls course as a prerequisite however it does lay a foundation for understanding the extraordinary productivity and accuracy that can be achieved when control engineers and fluid power engineers work as a team on a fluid power design problem A complete solutions manual is available for qualified adopting instructors

Fluid Power Transmission And Control A. Alavudeen, Khalid Hussain Syed And N. Shanmugam, 2007 This text book provides an in depth background in the field of Fluid Power It covers Design Analysis Operation and Maintenance The reader will find this book useful for a clear understanding of the subject and also to assist in the selection and troubleshooting of fluid power components and systems used in manufacturing operations providing a systematic summary of the fundamentals of hydraulic power transmission This book discusses the main characteristics of hydraulic drives and their most important types in a manner comprehensible even to newcomers of the subject This book covers a broad range of topics in the field including physical properties of hydraulic fluids energy and power in hydraulic systems frictional losses in hydraulic pipelines hydraulic pumps cylinders cushioning devices motors valves circuit design conductors and fittings hydraulic system maintenance pneumatic air preparation and its components and electrical controls for fluid power systems It provides everything you need to understand the fundamental operating principles as well as the latest maintenance repair and reconditioning techniques for industrial oil hydraulic systems Better understanding of the material is promoted by the sample solutions to various mathematical problems given in each chapter A number of photographs and illustration have been attached to reflect current Fluid Power system

Principles of Hydraulic Systems Design, Second Edition Peter Chapple, 2014-12-31 Fluid power systems are manufactured by many organizations for a very wide range of applications embodying different arrangements of components to fulfill a given task Hydraulic components are manufactured to provide the control functions required for the operation of a wide range of systems and applications This second edition is

structured to give an understanding of Basic types of components their operational principles and the estimation of their performance in a variety of applications A resume of the flow processes that occur in hydraulic components A review of the modeling process for the efficiency of pumps and motors This new edition also includes a complete analysis for estimating the mechanical loss in a typical hydraulic motor how circuits can be arranged using available components to provide a range of functional system outputs including the analysis and design of closed loop control systems and some applications a description of the use of international standards in the design and management of hydraulic systems and extensive analysis of hydraulic circuits for different types of hydrostatic power transmission systems and their application

Courses and Programs Iowa State University,1999

Noise Control for Hydraulic Machinery Stan Skaistis,1988-05-27 Focusing on hydraulic components and machines rather than architectural or environmental noise control this reference is unique in analyzing forces and moments in pumps showing how these forces produce noise at specific frequencies demonstrating how pump design controls these frequencies illustrating how a machine s noise radiating surfaces affect noise and discussing fluid borne noise Noise Control of Hydraulic Machinery provides techniques for analyzing any pump type reviews the basics and terminology of sound vibration vibration isolation fluid pulsations Fourier analysis cavitation hydraulic shock and enclosure design explains how pumps motors and valves generate airborne structure borne and fluid borne noises identifies hydraulic parameters that influence noise and guides planning programs for designing and developing quiet components or machines as well as quieting existing products Illustrated with some 170 diagrams Noise Control of Hydraulic Machinery is an essential reference for mechanical fluid power hydraulic acoustical and design engineers Book jacket

Fluid Power with Applications Anthony Esposito,2008-05-23 Fluid Power with Applications Seventh Edition presents broad coverage of fluid power technology in a readable and understandable fashion An extensive array of industrial applications is provided to motivate and stimulate students interest in the field Balancing theory and applications this book is updated to reflect current technology it focuses on the design analysis operation and maintenance of fluid power systems It also includes an Automation Studio tm CD produced by Famic Technologies Inc that contains simulations and animations of many of the fluid power circuits presented throughout the book as well as a variety of additional fluid power applications

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