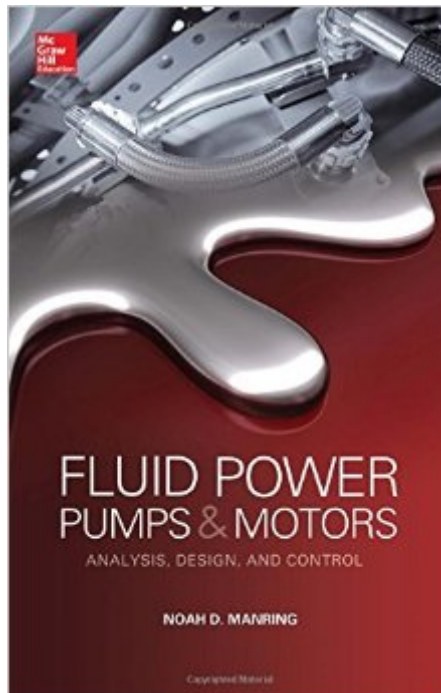# Fluid Power Pumps And Motors: Analysis, Design And Control

Synopsis

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

Book Information

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Average Customer Review: 3.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

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Customer Reviews

This book is very well written and thorough in its explanation of how to design a cylinder driven hydrostatic drive. The reason I gave it three stars instead of five is because the title is misleading. The title makes you think that the book is going to talk about numerous designs of pumps and motors. Instead, only one design is discussed--a major shortfall in my eyes. I was hoping this book would cover items like the Francis turbine, gear motors, screw motors, various pump designs, etc. However, it was just the one design that was discussed.

Fluid Power Pumps and Motors: Analysis, Design and Control Electric Motors in the Home Workshop: A Practical Guide to Methods of Utilizing Readily Available Electric Motors in Typical Small Workshop Applications (Workshop Practice Series) Electrical Control of Fluid Power: Electric and Electronic Control of Hydraulic & Air Systems Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power Controlling Electrohydraulic Systems (Fluid Power and Control) Butch Queens Up in Pumps: Gender, Performance, and Ballroom Culture in Detroit (Triangulations: Lesbian/Gay/Queer Theater/Drama/Performance) Intuition Pumps And Other Tools for Thinking Hydraulic Ram Pumps: A Guide to Ram Pump Water Supply Systems Electric Motors and Control Systems Activities Manual for Electric Motors and Control Systems w/ Constructor CD Automatic On/Off Control of Small Motors & Other Home Appliances Using PIC 18F4680 Microcontroller -- A Circuit Diagram & PIC Program Code Control of Induction Motors (Engineering) Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) Design of Brushless Permanent-Magnet Motors (Monographs in Electrical and Electronic Engineering) Mechanical Design of Electric Motors Kjeldsberg's Body Fluid Analysis Industrial Fluid Power, Vol. 1: Basic Text on Hydraulics, Air & Vacuum for Industrial and Mobile Applications Fluid Power: Hydraulics and Pneumatics NLP: Neuro Linguistic Programming: Re-program your control over emotions and behavior, Mind Control - 3rd Edition (Hypnosis, Meditation, Zen, Self-Hypnosis, Mind Control, CBT) Power Integrity for I/O Interfaces: With Signal Integrity/ Power Integrity Co-Design (Prentice Hall Modern Semiconductor Design)