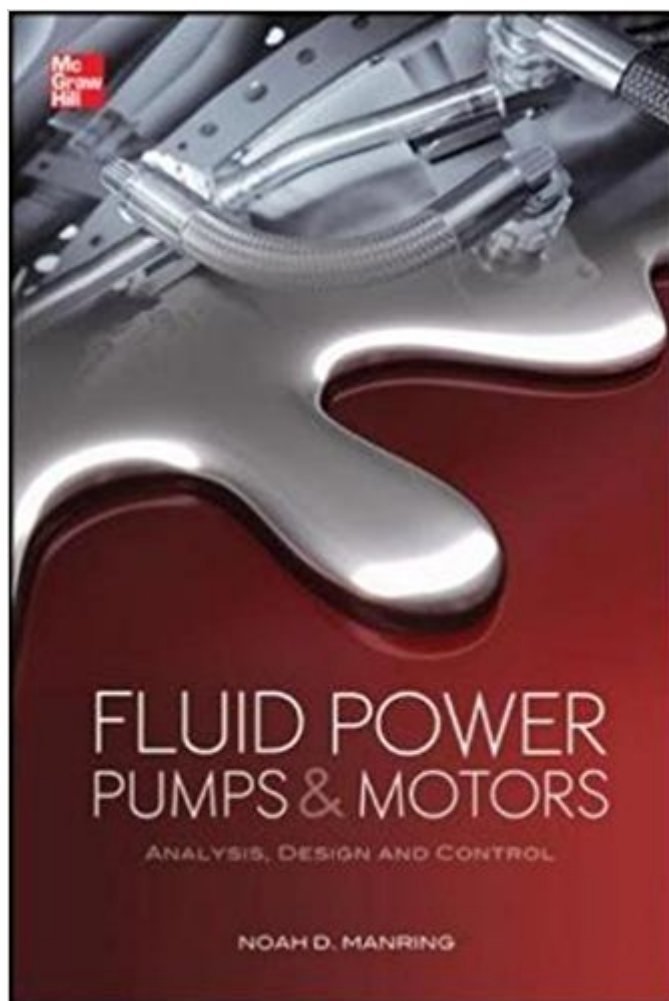


The book was found

# 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

Hardcover: 320 pages

Publisher: McGraw-Hill Education; 1 edition (July 17, 2013)

Language: English

ISBN-10: 0071812202

ISBN-13: 978-0071812207

Product Dimensions: 7.3 x 1 x 9.4 inches

Shipping Weight: 13.4 ounces (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars 4 customer reviews

Best Sellers Rank: #428,187 in Books (See Top 100 in Books) #4 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Hydroelectric](#) #116 in [Books > Engineering & Transportation > Engineering > Mechanical > Hydraulics](#) #285 in [Books > Textbooks > Engineering > Industrial Engineering](#)

## Customer Reviews

Noah Manring is the Glen A. Barton Professor for Fluid Power in the Mechanical and Aerospace Engineering Department at the University of Missouri–Columbia (UMC). Before joining the faculty at UMC, he worked for eight years in the off-highway mobile equipment industry. Dr. Manring holds ten U.S. patents for innovations in the field of fluid power. As a professor, he has received research funding from Caterpillar, Inc., Festo Corp., and the National Fluid Power Association, among others, as well as the U.S. Department of Education, the National Science Foundation, and various private donors. Dr. Manring currently serves as the Associate Dean for Research in the

College of Engineering at the University of Missouri. He has done consulting work for several industrial firms, including Moog Inc., FMC Wyoming Corp., Dennison Hydraulics, and Parker Hannifin.

If you want to learn about piston pumps, this book is a great place to start. Easy to follow explanations with great illustrations.

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.

I am very impressed with this author's command of his subject. He gets right to the point in the first line of the preface: axial-piston swash-plate type pumps and motors. He means to bring us, as engineers, up to speed on the analysis, design, and implementation of these machines that are so necessary and ubiquitous in the modern world of aerospace and manufacturing . This author makes the text very readable even though much detail has to be presented to comprehensively cover each of the areas of analysis, design and control of each component of the pumps and motors. The book's organization follows logically as you work your way through designing a system. I especially appreciated that, while the book is very "hands on", theory discussions were not ignored and the math did not bog me down, but was very enlightening. Numerous charts and graphs presented performance and operational parameters. Additionally, many drawings show what these machines look like physically and operationally. To really understand all aspects of axial-piston swash-plate motors and pumps, get Dr. Manring's book. It will get the job done.

arrive on time. good quality with low price. very good. If you have only one product, this is the one to have my brother need so cool product,

[Download to continue reading...](#)

Fluid Power Pumps and Motors: Analysis, Design and Control Motor Starting and Control Primer:  
An introduction to the starting techniques and control of electric motors Electrical Control of Fluid  
Power: Electric and Electronic Control of Hydraulic & Air Systems Master Your Mind: Achieve

Greatness by Powering Your Subconscious Mind [mental power, mind control, thought control] (brain power, subconscious mind power, NLP, Neuro Linguistic Programming) Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power 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 Power Pivot and Power BI: The Excel User's Guide to DAX, Power Query, Power BI & Power Pivot in Excel 2010-2016 Fluid, Electrolyte, and Acid-Base Disorders in Small Animal Practice, 4e (Fluid Therapy In Small Animal Practice) Electric Motors and Control Systems (Engineering Technologies & the Trades) Package: Activities Manual for Electric Motors and Control Systems with Constructor Access Card Electric Motors and Control Systems ELECTRIC MOTORS-CONTROL DIAGRAM (SELF-STARTER UNIVERSITY) Control of Induction Motors (Engineering) Country and Cottage Water Systems: A Complete Out-of-the-City Guide to On-Site Water and Sewage Systems, Including Pumps, Plumbing, Water Purification and Alternative Toilets The Hydraulics Manual: Includes Hydraulic Basics, Hydraulic Systems, Pumps, Hydraulic Actuators, Valves, Circuit Diagrams, Electrical Devices, Troubleshooting and Safety (Mechanics and Hydraulics) Audel Pumps and Hydraulics Intuition Pumps And Other Tools for Thinking Reference Book on Geothermal Direct Use: Case Studies, Residential Geothermal Heat Pumps, Greenhouses, Gold Processing Building Natural Ponds: Create a Clean, Algae-free Pond without Pumps, Filters, or Chemicals Hydraulic Ram Pumps: A Guide to Ram Pump Water Supply Systems

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)