



# Fluid Power Pumps and Motors: Analysis, Design and Control (Mechanical Engineering)

By Noah D. Manning

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**Fluid Power Pumps and Motors: Analysis, Design and Control (Mechanical Engineering)** By Noah D. Manning

## 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

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### **Editorial Review**

#### **About the Author**

**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.

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