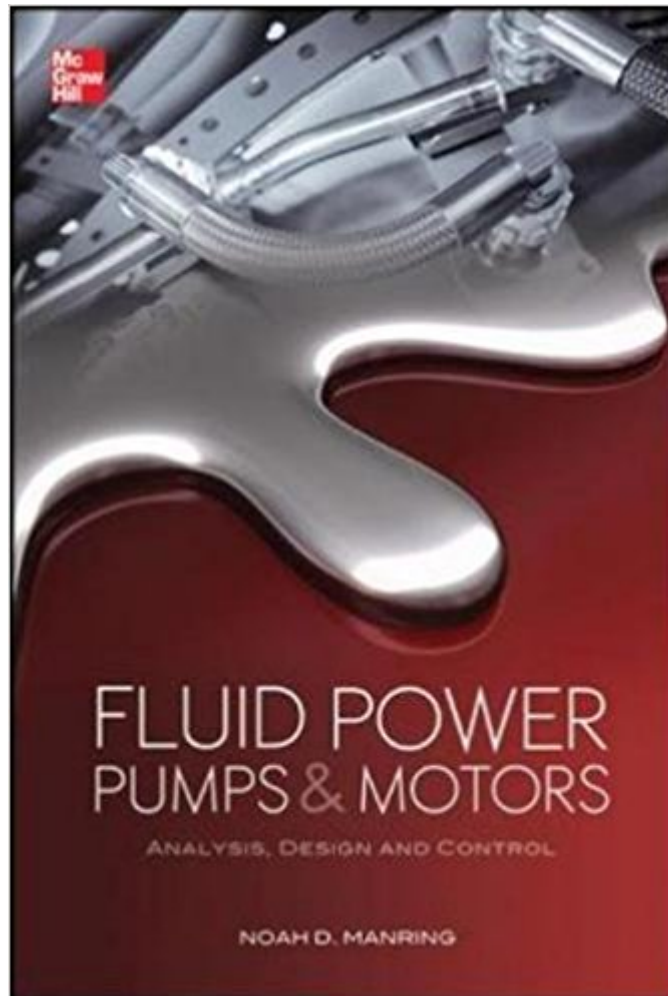




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Fluid Power Pumps And Motors: Analysis, Design And Control



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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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.

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