



# Fluid Power Engineering

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# Fluid Power Engineering

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## **Develop high-performance hydraulic and pneumatic power systems**

Design, operate, and maintain fluid and pneumatic power equipment using the expert information contained in this authoritative volume. *Fluid Power Engineering* presents a comprehensive approach to hydraulic systems engineering with a solid grounding in hydrodynamic theory. The book explains how to create accurate mathematical models, select and assemble components, and integrate powerful servo valves and actuators. You will also learn how to build low-loss transmission lines, analyze system performance, and optimize efficiency.

- Work with hydraulic fluids, pumps, gauges, and cylinders
- Design transmission lines using the lumped parameter model
- Minimize power losses due to friction, leakage, and line resistance
- Construct and operate accumulators, pressure switches, and filters
- Develop mathematical models of electrohydraulic servosystems
- Convert hydraulic power into mechanical energy using actuators
- Precisely control load displacement using HSAs and control valves
- Apply fluid systems techniques to pneumatic power systems

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