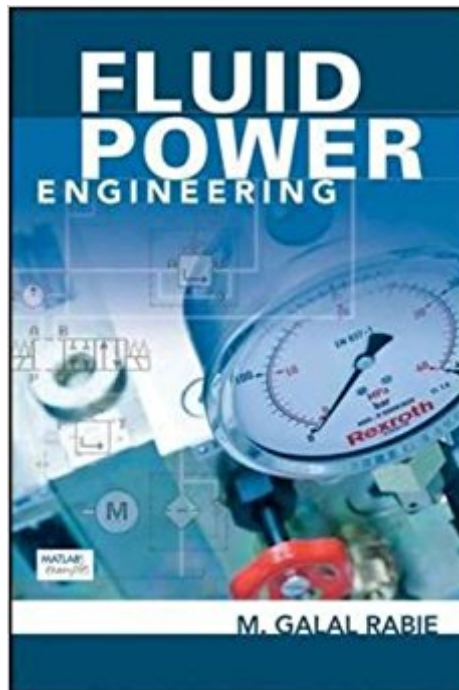




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Fluid Power Engineering



Synopsis

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

Book Information

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Customer Reviews

Mahmoud Galal El-Din Mohamed Rabie, Ph.D., is a professor in the Manufacturing Engineering and Production Technology Department, Modern Academy for Engineering and Technology, Cairo, Egypt.

It is a good reference manual, it's not a good textbook. There are hardly any examples, no answers to check your work and no handy conversions. Do you remember how many gallons are in a cubic meter? do you remember that a cSt- $10^{-6} \text{ m}^2/\text{s}$? Do you remember that $1 \text{ P} = 0.1 \text{ Ns}/\text{m}^2$? They are either difficult to find or not in the book at all. (those two are hidden on pages 16 and 17.)

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