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- 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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Quasi-static hydraulic control systems and energy savings potential using independent metering four-valve assembly