DESCRIPTION

A unique resource that demystifies the physical basics of hydraulic systems

Hydraulic Control Systems offers students and professionals a reliable, complete volume of the most up-to-date hows and whys of today's hydraulic control system fundamentals. Complete with insightful industry examples, it features the latest coverage of modeling and control systems with a widely accepted approach to systems design.

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* A useful review of fluid mechanics and system dynamics
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* Discussions of flow ripple for both gear pumps and axial piston pumps
* Updated analysis of the pump control problems associated with swash plate type machines
* A successful methodology for hydraulic system design-starting from the load point of the system and working backward to the ultimate power source

* Reduced-order models and PID controllers showing control objectives of position, velocity, and effort

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### ABOUT THE AUTHOR

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