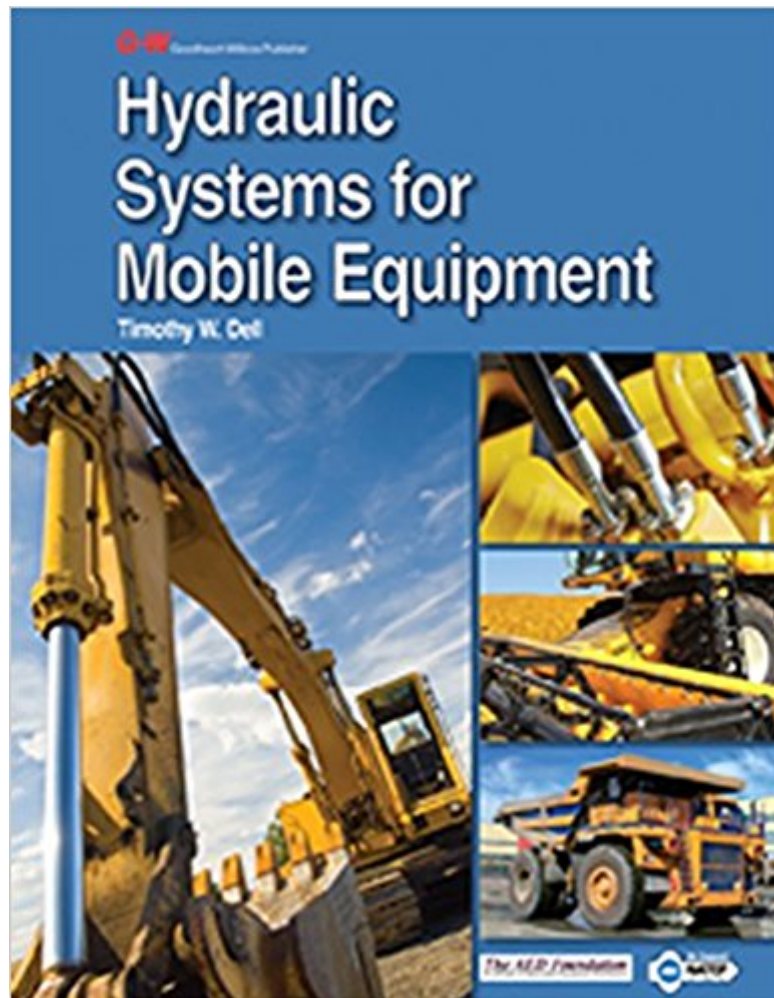




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# Hydraulic Systems For Mobile Equipment



## Synopsis

Hydraulic Systems for Mobile Equipment is intended to educate students in off-road equipment and heavy truck programs. Although the text has a primary emphasis on agricultural and construction machinery, it can empower students working in any related field of hydraulics. To this end, it teaches and is correlated to the competencies of both AED Hydraulics/Hydrostatics Standards and the NATEF Heavy Trucks Task List. Designed for education, the text contains rich pedagogical support, thorough coverage of equipment and systems from a variety of manufacturers, and high-quality photos, drawings, and schematics. The scope and approach of the book make it appropriate for all students, whether they are pursuing a certificate, associate's degree, bachelor's degree, or a master's degree. • Includes traditional hydraulic content such as fluid power principles, pumps, motors, safety, valves, filtration, accumulators, plumbing, reservoirs, coolers, and fluids. • Includes fundamental explanation of the most common types of mobile hydraulic control systems, specifically open center, pressure compensating, pre-spool load sensing pressure compensating, post spool compensation (flow sharing), negative flow control, and positive flow control. • Provides fundamental instruction on hydrostatic transmissions with the goal of providing students true comprehension of the systems.

## Book Information

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## Customer Reviews

Timothy W Dell is an Associate Professor of Automotive Technology at Pittsburg State University. Dr. Dell received his doctoral degree in curriculum and instruction from Kansas State University, a

master of science degree in technology education from Pittsburg State University, and a bachelor of science degree in automotive technology with an emphasis in diesel and heavy equipment from Pittsburg State University. Dr. Dell began his career working for Case IH in their Technical Service Group, specializing in combine diagnostics. He has served on John Deere's Agricultural National Service Training Advisory Board and has been the advisor of Pittsburg State University's Caterpillar ThinkBIGGER four-year degree. He currently teaches Automotive Electricity and Electronic Systems, Automotive Automatic Transmissions, Fluid Power, Advanced Hydraulic Systems and Off Highway Systems. Dr. Dell has served as the automotive department chair for four years, but returned to the classroom full time to pursue his passion for curriculum development and teaching.

This book will make a good addition to my technical library. The only complaint is this book was sold as new but the cover has been bent and has a crease across it. Other than that, it looks like an excellent technical book.

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