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Basics of Hydraulic Systems

By Qin Zhang

CRC Press. Hardcover. Book Condition: New. Hardcover. 336 pages. Draws the Link Between Service Knowledge and the Advanced Theory of Fluid Power Providing the fundamental knowledge on how a typical hydraulic system generates, delivers, and deploys fluid power, Basics of Hydraulic Systems highlights the key configuration features of the components that are needed to support their functionality in a system, such as operating principles, structural features, functionalities, and applications of core composing elements. It also shows how those components work together to perform the designated power transmission task. Moves from a System to Instructional Components Approach By presenting the ins and outs of hydraulic systems in an easy-to-follow way, this example-filled textbook provides students, engineers, and technical managers an effective nuts-and-bolts reference for studying the fundamentals of fluid power transmission technology. Rather than bogging readers down with extensive mathematical equations, this resource uses a visual, expressive approach with many graphic illustrations. It also includes examples and problems within each chapter and a solutions manual for qualifying course adoptions. The text includes a section devoted to hydraulic energy storage and regeneration elements, since both play an important role in many hybrid power transmission systems, such as diesel-hydraulic hybrid vehicles. As a hydraulics...



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