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Autore	Leporati, Lamberto
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2. Record Nr.	UNINA9910455313503321
Autore	Watton J. <1944->
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ISBN	1-107-19386-9 0-511-69935-2 9786612393570 0-511-64752-2 1-282-39357-X 1-139-17524-6 0-511-65160-0 0-511-60227-8 0-511-60436-X 0-511-60358-4 0-511-60280-4
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Nota di contenuto	; 1. Introduction, Applications, and Concepts -- ; 2. Introduction to Fluid Properties -- ; 3. Steady-State Characteristics of Circuit Components -- ; 4. Steady-State Performance of Systems -- ; 5. System Dynamics -- ; 6. Control Systems -- ; 7. Some Case Studies.
Sommario/riassunto	This exciting reference text is concerned with fluid power control. It is an ideal reference for the practising engineer and a textbook for advanced courses in fluid power control. In applications in which large forces and/or torques are required, often with a fast response time, oil-hydraulic control systems are essential. They excel in environmentally difficult applications because the drive part can be designed with no electrical components and they almost always have a more competitive power/weight ratio compared to electrically actuated systems. Fluid power systems have the capability to control several parameters, such as pressure, speed, position, and so on, to a high degree of accuracy at high power levels. In practice there are many exciting challenges facing the fluid power engineer, who now must preferably have a broad skill set.