1.	Record Nr.	UNINA9910820211103321
	Autore	Watton J. <1944->
	Titolo	Fundamentals of fluid power control / / John Watton [[electronic resource]]
	Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2009
	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
	Descrizione fisica	1 online resource (xiii, 494 pages) : digital, PDF file(s)
	Disciplina	629.8/042
	Soggetti	Fluid power technology
		Hydraulic control
		Hydraulic motors
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
	Nota di bibliografia	Includes bibliographical references and index.
	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.