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Autore	Kim Sang-Hoon
Titolo	Electric motor control : DC, AC, and BLDC motors / / Sang-Hoon Kim
Pubbl/distr/stampa	Amsterdam, Netherlands : , : Elsevier, , [2017] ©2017
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Descrizione fisica	1 online resource (440 pages) : illustrations
Disciplina	621.462
Soggetti	Electric motors - Automatic control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; Electric Motor Control; Copyright Page; Contents; Preface; 1 Fundamentals of electric motors; 1.1 Fundamental Operating Principle of Electric Motors; 1.1.1 Configuration of Electric Motors; 1.1.2 Basic Operating Principle of Electric Motors; 1.1.2.1 Direct current motor; 1.1.2.2 Alternating current motor; 1.2 Requirements for Continuous Torque Production; 1.2.1 Magnetic Energy; 1.2.2 Linear Motion Device; 1.2.3 Rotating Machine; 1.2.3.1 Direct current motor; 1.2.3.2 Synchronous motor; 1.2.3.3 Induction motor; 1.3 Mechanical Load System; 1.3.1 Dynamic Equation of Motion 1.3.1.1 Combination system of translational motion and rotational motion1.3.1.2 System with gears or pulleys; 1.3.2 Operating Modes of an Electric Motor; 1.4 Components of an Electric Drive System; 1.4.1 Power Supply; 1.4.2 Electric Motors; 1.4.3 Power Electronic Converters; 1.4.4 Digital Controllers; 1.4.5 Sensors and Other Ancillary Circuits; References; 2 Control of direct current motors; 2.1 Configuration of Direct Current Motors; 2.2 Modeling of Direct Current Motors; 2.2.1 Armature Circuit; 2.2.2 Back-Electromotive Force; 2.2.3 Torque; 2.2.4 Mechanical Load System 2.5.3 Design Consideration of Control System2.5.3.1 Stability; 2.5.3.1.1 Gain margin and phase margin; 2.5.3.2 Response time/speed of response; 2.5.3.3 Steady-state error; 2.6 Current Controller Design; 2.6.1 Proportional-Integral Current Controller; 2.6.1.1 Selection of the bandwidth for current control; 2.6.2 Anti-windup Controller; 2.6.2.1

		Gains selection procedure of the proportional-integral current controller; 2.7 Speed Controller Design; 2.7.1 Proportional-Integral Speed Controller; 2.7.1.1 Selection of the bandwidth of speed control Gains selection procedure of the proportional-integral speed controller2.7.1.3 Drawback of a proportional-integral speed controller; 2.7.2 Integral-Proportional Controller; 2.8 Power Electronic Converter for Direct Current Motors; 2.8.1 Switching Schemes; 2.8.1.1 Bipolar switching scheme; 2.8.1.2 Unipolar switching scheme; 2.9 Simulation of Direct Current Motor Drive System: MATLAB/Simulink; 2.9.1 Direct Current Motor Modeling; 2.9.2 Mechanical System Modeling; 2.9.3 Proportional-Integral Current Controller Modeling; 2.9.4 Proportional-Integral Speed Controller Modeling
2.	Record Nr.	UNINA9910792040703321
	Autore	Lebed Felix
	Titolo	Complexity and control in team sports : dialectics in contesting human systems / / Felix Lebed and Michael Bar-Eli
	Pubbl/distr/stampa	Abingdon, Oxon : , : Routledge, , 2013
	ISBN	1-136-66114-X 0-203-80727-8 1-299-31943-2 1-136-66115-8
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (473 p.)
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	Altri autori (Persone)	Bar-EliMichael
	Disciplina	796.06/9
	Soggetti	Sports sciences Team sports Sports - Management
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	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	pt. 1. Methodological aspects of complexity in team sports -- pt. 2. Individuals in team contests : the complexity point of view -- pt. 3. Complexity in sport teams and organizations -- pt. 4. Applying the complexity approach.
	Sommario/riassunto	Complexity and Control in Team Sports is the first book to apply

complex systems theory to 'soccer-like' team games (including basketball, handball and hockey) and to present a framework for understanding and managing the elite sports team as a multi-level complex system. Conventional organizational studies have tended to define team sports as a set of highly heterogeneous physical, mental and cognitive activities within which it is difficult, if not impossible, to find common behavioural playing regularities or universal pedagogies for controlling those activities. Adopting a whol