

1. Record Nr.	UNINA9910350221803321
Titolo	Advanced Linear Machines and Drive Systems // edited by Wei Xu, Md. Rabiul Islam, Marcello Pucci
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9616-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXXVI, 341 p. 238 illus., 203 illus. in color.)
Disciplina	621.3815
Soggetti	Electronic circuits Power electronics Control engineering Mathematical optimization Electronic Circuits and Devices Power Electronics, Electrical Machines and Networks Control and Systems Theory Optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Electro-Magnetic Design of LIM -- Dynamic Modeling of LIMs -- Advanced Design Optimization Techniques of Linear Machines -- Superconducting Linear Machines -- Loss Minimization Control of LIM and Drives -- Model Predictive Control of LIM -- Non-linear Control Techniques for LIMs -- Sensorless Control Techniques for LIMs.
Sommario/riassunto	This book collects the latest theoretical and technological concepts in the design and control of various linear machines and drive systems. Discussing advances in the new linear machine topologies, integrated modeling, multi-objective optimization techniques, and high-performance control strategies, it focuses on emerging applications of linear machines in transportation and energy systems. The book presents both theoretical and practical/experimental results, providing a consistent compilation of fundamental theories, a compendium of current research and development activities as well as new directions to overcome critical limitations.

