1.

Record Nr.	UNINA9911018930603321
Autore	Sul Seung-Ki
Titolo	Control of electric machine drive system / / Seung-Ki Sul
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-IEEE, c c2011
ISBN	9781118099568
	1118099567
	9780470876541
	0470876549
	9781299186101
	1299186106
	9780470876558
	0470876557
Descrizione fisica	1 online resource (XVI, 399 p.)
Collana	IEEE Press series on power engineering ; ; 55
Classificazione	TEC031000
Disciplina	621.46
Soggetti	Electric driving - Automatic control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- 1 Introduction -- 1.1 Introduction -- 1.2 Basics of Mechanics -- 1.3 Torque Speed Curve of Typical Mechanical Loads -- 2 Basic Structure and Modeling of Electric Machines and Power Converters -- 2.1 Structure and Modeling of DC Machine -- 2.2 Analysis of Steady-State Operation -- 2.3 Analysis of Transient State of DC Machine -- 2.4 Power Electronic Circuit to Drive DC Machine -- 2.5 Rotating Magnetic Motive Force -- 2.6 Steady-State Analysis of a Synchronous Machine -- 2.7 Linear Electric Machine -- 2.8 Capability Curve of Synchronous Machine -- 2.9 Parameter Variation of Synchronous Machine -- 2.10 Steady-State Analysis of Induction Machine -- 2.11 Generator Operation of an Induction Machine -- 2.12 Variation of Parameters of an Induction Machine -- 2.13 Classification of Induction Machines According to Speed-Torque Characteristics -- 2.14 Quasi-Transient State Analysis -- 2.15 Capability Curve of an Induction Machine -- 2.16 Comparison of AC Machine and DC Machine -- 2.17 Variable-Speed Control of Induction Machine Based on Steady-State Characteristics -- 2.18 Modeling of Power Converters -- 2.19

Sommario/riassunto	"This book is based on the author's industry experience. It contains many exercise problems that engineers would experience in their day-to-day work. The book was published in Korean at 500 pages as a textbook. The book will contain over 300 figures. The author plans to have an FTP site to provide some MATLAB programs for selected problems"-- "This book is based on the author's industry experience. It contains many exercise problems that engineers would experience in their day-to-day work"--