1. Record Nr. UNINA9910463488703321

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Titolo	The principles of electromechanical power conversion / / Braham Ferreira, Wim Van der Merwe
Pubbl/distr/stampa	Hoboken, New Jersey : , : IEEE, , 2014 ©2014
ISBN	1-118-82333-8 1-118-82346-X 1-118-79885-6
Descrizione fisica	1 online resource (413 p.)
Disciplina	621.31/7
Soggetti	Power electronics Electric generators Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Title Page; Copyright; Preface; Chapter 1: Introduction to Electrical Systems and Power Conversion; 1.1 Electricity as an Energy Carrier; 1.2 Development of Electrical Energy Conversion Systems; 1.3 System Building Blocks; 1.4 Guide to the Book; Problems; Chapter 2: Electrical Power Sources and Energy Storage; 2.1 Introduction; 2.2 Primary Sources; 2.3 Secondary Sources; 2.4 Highlights; Problems; Chapter 3: Power, Reactive Power and Power Factor; 3.1 Introduction; 3.2 Power in DC Circuits; 3.3 Power in Resistive AC Circuits; 3.4 Effective or rms Values; 3.5 Phasor Representation 3.6 Power in AC Circuits 3.7 Apparent Power, Real Power and Power Factor; 3.8 Complex Power; 3.9 Electrical Energy Cost and Power Factor Correction; 3.10 Fourier Series; 3.11 Harmonics in Power Systems; 3.12 Power and Non-Sinusoidal Waveforms; 3.13 Effective or rms Value of Non-Sinusoidal Waveforms; 3.14 Power Factor of Non-Sinusoidal Waveforms; 3.15 Harmonics in Power Systems; 3.16 Three-Phase Systems; 3.17 Harmonics in Balanced Three-Phase Systems; 3.18 Highlights; Problems; Further Reading; Chapter 4: Magnetically Coupled Networks; 4.1 Introduction; 4.2 Basic Concepts; 4.3 Mutual Inductance

4.4 Ideal Transformer 4.5 Highlights; Problems; Further Reading; Chapter 5: Dynamics of Rotational Systems; 5.1 Introduction; 5.2 Preliminaries; 5.3 Rotational Dynamics; 5.4 Coupling Mechanisms; 5.5 Highlights; Problems; Further Reading; Chapter 6: Power Electronic Converters; 6.1 Introduction; 6.2 Linear Voltage Regulator; 6.3 Switched Approach; 6.4 Basic Assumptions; 6.5 Buck Converter; 6.6 Discontinious Conduction Mode; 6.7 Other Basic Converter Structures; 6.8 DC-DC CONVERTERS WITH ISOLATION; 6.9 Highlights; Problems; Further Reading; Chapter 7: Simple Electrical Machines; 7.1 Introduction
7.2 Motional Voltage and Electromagnetic Force 7.3 Simple Linear dc Machine; 7.4 Basic Operation of the dc Machine; 7.5 Practical DC Machine Construction; 7.6 Practical DC Machine Configurations; 7.7 DC Machine as A Component in A System; 7.8 Highlights; Problems; Further Reading; Chapter 8: AC Machines; 8.1 Introduction; 8.2 Three-Phase AC Electrical Port; 8.3 Ac Machine Stator; 8.4 Synchronous Machine; 8.5 Induction Machine; 8.6 Highlights; Problems; Further Reading; Index

Sommario/riassunto

Teaching the principles of power electronics and electro mechanical power conversion through a unique top down systems approach, The Principles of Electro mechanical Power Conversion takes the role and system context of power conversion functions as the starting point. Following this approach, the text defines the building blocks of the system and describes the theory of how they exchange power with each other. The authors introduce a modern, simple approach to machines, which makes the principles of field oriented control and space vector theory approachable to undergraduate students as

2. Record Nr. UNINA9910261136003321

Autore	Emanuela Marcenaro
Titolo	NK Cell Subsets in Health and Disease: New Developments
Pubbl/distr/stampa	Frontiers Media SA, 2017
Descrizione fisica	1 online resource (243 p.)
Collana	Frontiers Research Topics
Soggetti	Medicine and Nursing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Natural Killer (NK) cells were discovered ca 1975, as the first group of lymphoid cells that were neither T cells nor B cells. Since then, the dissection of the biology of NK cells has been growing exponentially with many seminal discoveries from the identification of MHC class I-specific inhibitory receptors to the discovery of receptor-ligand pairs involved in NK cell activation and to the manipulation of NK cells in cancer. In this research topic, we asked a group of thought leaders in NK cell biology to review recent advances in their origins and biology, and their roles in cancer, infection and inflammation. Together, these 25 articles provide a timely survey of NK cells as critical immunologic components of health and disease. They will hopefully prompt further dialogue and developments in basic and translational immunology.