

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 Discontinuous 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.	UNINA9910157478703321
Autore	Fouda Vincent Sosthène
Titolo	Le procès de Laurent Gbagbo : Côte d'Ivoire, l'Afrique face à son destin
Pubbl/distr/stampa	[Place of publication not identified], : L'Harmattan, 2015
ISBN	2-336-36891-9
Soggetti	Conspiracies - History - 21st century - Côte d'Ivoire Contested elections - Côte d'Ivoire Regions & Countries - Africa History & Archaeology Cote d'Ivoire Politics and government 21st century Africa Politics and government 21st century
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph

3. Record Nr.	UNINA9910707415903321
Autore	Freeberg Jacquelyn H (Jacquelyn Hester), <1923-2007, >
Titolo	Terrestrial impact structures : a bibliography, 1965-68 / / by Jacquelyn H. Freeberg
Pubbl/distr/stampa	[Washington, D.C.] : , : United States Department of the Interior, Geological Survey, , 1969 Washington : , : United States Government Printing Office
Descrizione fisica	1 online resource (39 pages)
Collana	Geological Survey bulletin ; ; 1320
Soggetti	Meteorite craters Bibliographies.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed September 15, 2014). Supplements Geological Survey bulletin 1220. Includes author index.