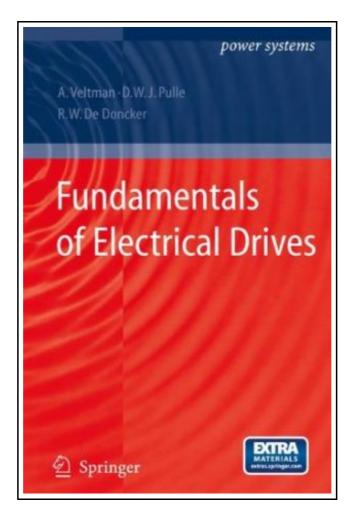
Fundamentals of Electrical Drives (Power Systems)



Filesize: 2.63 MB

Reviews

This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating through reading time. Your life span will be enhance when you complete looking at this publication.

(Laurence Littel)

FUNDAMENTALS OF ELECTRICAL DRIVES (POWER SYSTEMS)



Springer, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Dedication. Foreword. Preface. Acknowledgments. Symbol conventions.1. INTRODUCTION. 1.1 Why use electro-mechanical energy conversion? 1.2 Key components of an Electrical drive system. 1.3 What characterizes high performance drives? 1.4 Notational conventions. 1.5 Use of building blocks to represent equations. 1.6 Magnetic principles. 1.7 Machine sizing principles. 1.8 Tutorials for Chapter 1.2. SIMPLE ELECTRO-MAGNETIC CIRCUITS. 2.1 Introduction. 2.2 Linear inductance. 2.3 Coil resistance. 2.4 Magnetic saturation. 2.5 Use of phasors for analyzing linear circuits. 2.6 Tutorials for Chapter 2.3. THE TRANSFORMER. 3.1 Introduction. 3.2 Ideal transformer (ITF) concept. 3.3 Basic transformer. 3.4 Transformer with magnetizing inductance. 3.5 Steady-state analysis. 3.6 Three inductance model. 3.7 Two inductance models. 3.8 Mutual and self inductance based model. 3.9 Two inductance model with coil resistance. 3.10 Tutorials for Chapter 3.4. THREE-PHASE CIRCUITS. 4.1 Introduction. 4.2 Star/Whye connected circuit. 4.3 Delta connected circuit. 4.4 Space vectors. 4.5 Amplitude and power invariant space vectors. 4.6 Application of space vectors for three-phase circuit analysis. 4.7 Relationship between space vectors and phasors. 4.8 Tutorials for Chapter 4.5. CONCEPT OF REAL AND REACTIVE POWER. 5.1 Introduction. 5.2 Power in single phase systems. 5.3 Power in three phase systems. 5.4 Phasor representation of real and reactive power. 5.5 Tutorials for Chapter 5.6. SPACE VECTOR BASED TRANSFORMER MODELS. 6.1 Introduction. 6.2 Development of a space vector based ITF model. 6.3 Two-phase ITF based generalized transformer model. 6.4 Tutorials for Chapter 6.7. INTRODUCTION TO ELECTRICAL MACHINES. 7.1 Introduction. 7.2 Ideal Rotating Transformer (IRTF) concept. 7.3 Conditions required to realize constant torque. 7.4 General machine model. 7.5 Tutorials VOLTAGESOURCECONNECTEDSYNCHRONOUS MACHINES. 8.1 Introduction. 8.2 Machine configuration. 8.3 Operating principles. 8.4 Symbolic model. 8.5 Generalized symbolic model. 8.6 Steady-state characteristics. 8.7 Tutorials for Chapter 8.9. VOLTAGESOURCECONNECTEDASYNCHRONOUS MACHINES. 9.1...

- Read Fundamentals of Electrical Drives (Power Systems) Online
- Download PDF Fundamentals of Electrical Drives (Power Systems)

Other PDFs



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

Save Book »



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

Save Book »



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

Save Book »



Maisy's Christmas Tree

Candlewick, 2014. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: The final scene of the gang caroling around the tree, complete with paper crowns from British Christmas crackers, is...

Save Book »



Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner's Crochet Guide with Pictures)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and...

Save Book »