



Electric Motor Drives: Modeling, Analysis, and Control

By Krishnan, R.

Prentice Hall, 2001. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE: Most chapters begin with an Introduction and conclude with either Suggested Readings or References, Discussion Questions and Exercise Problems.) 1. Introduction. Power Devices. Motor Drive. Scope of the Book. 2. Modeling of DC Machines. Theory of Operation. Induced Emf. Equivalent Circuit & Electromagnetic Torque. Electromechanical Modeling. State Space Modeling. Block Diagram & Transfer Functions. Field Excitation. Measurement of Motor Constants. Flow Chart for Computation. 3. Phase Controlled DC Motor Drives. Principles of Dc Motor Drives. Phase Controlled Converters. Steady State Analysis of the Three Phase Converter Controlled Dc Motor Drive. Two Quadrant Three Phase Converter Controlled Dc Motor Drive. Transfer Functions of the Subsystems. Design of Controllers. Two Quadrant Dc Motor Drive with Field Weakening. Four Quadrant Dc Motor Drive. Converter Selection and Characteristics. Simulation of the One-Quadrant Dc Motor Drive. Harmonics & Associated Problems. Sixth Harmonic Torque. Application Considerations. Applications. Parameter Sensitivity. Research Status. 4. Chopper Controlled DC Motor Drives. Principle of Operation of the Chopper. Four Quadrant Chopper Circuit. Chopper for Inversion. Chopper with other Power Devices. Model of the Chopper. Input to the Chopper. Other Chopper Circuits. Steady State...



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