



Electric Machinery and Transformers (The Oxford Series in Electrical and Computer Engineering)

By Guru, Bhag S.; Hiziroglu, Huseyin R.

Oxford University Press, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface Acknowledgments 1 Review of Electric Circuit Theory 1.1. Introduction 1.2. Direct-Current Ciruit Analysis 1.3. Alternating-Current Circuit Analysis 1.4. Three-Phase Circuits 1.5. Power and Impendance Measurements Summary Review Questions Problems 2 Review of Basic Laws of Electromagnetism 2.1. Introduction 2.2. Maxwell's Equations 2.3. Magnetic Materials and Their Properties 2.4. Magnetic Circuits 2.5. Self and Mututal Inductances 2.6. Magnetically Coupled Coils 2.7. Magnetic Losses 2.8. Permanent Magnets Summary Review Questions Problems 3 Principles of Electromechanical Energy Conversion 3.1. Introduction 3.2. Electric Field as a Medium 3.3. Magnetic Field as a Medium 3.4. A Coil in a Uniform Magnetic Field 3.5. A Coil in a Time-Varying Magnetic Field 3.6. Synchronous Motor 3.7. Reluctance Motor 3.8. Electromagnetic Relays Summary Review Questions Problems 4 Transformers 4.1. Introduction 4.2. Construction of a Transformer 4.3. An Ideal Transformer 4.4. A Nonideal Transformer 4.5. Voltage Regulation 4.6. Maximum Efficiency Criterion 4.7. Determination of Transformer Parameters 4.8. Per-Unit Computations 4.9. The Autotransformer 4.10. Three-Phase Transformers 4.11. The Constant-Current Transformer 4.12. Instrument Transformers Summary Review Questions Problems 5 Direct-Current Generators 5.1. Introduction 5.2. Mechanical Construction 5.3. Armature Windings 5.4. Induced emf...

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