

Pearson New International Edition

Electrical Machines, Drives, and Power Systems Theodore Wildi Sixth Edition

# **Pearson New International Edition**

Electrical Machines, Drives, and Power Systems Theodore Wildi Sixth Edition

## **Electrical Machines, Drives and Power Systems**

### **Table of Contents**

#### Cover

#### **Table of Contents**

- 1. Units
- 2. Fundamentals of Electricity, Magnetism, and Circuits
- 3. Fundamentals of Mechanics and Heat
- 4. Direct-Current Generators
- 5. Direct-Current Motors
- 6. Efficiency and Heating of Electrical Machines
- 7. Active, Reactive, and Apparent Power
- 8. Three-Phase Circuits
- 9. The Ideal Transformer
- 10. Practical Transformers
- 11. Special Transformers
- 12. Three-Phase Transformers
- 13. Three-Phase Induction Machines
- 14. Selection and Application of Three-Phase Induction Machines
- 15. Equivalent Circuit of the Induction Motor
- 16. Synchronous Generators
- 17. Synchronous Motors
- 18. Single-Phase Motors
- 19. Stepper Motors
- 20. Basics of Industrial Motor Control
- 21. Fundamental Elements of Power Electronics
- 22. Electronic Control of Direct-Current Motors
- 23. Electronic Control of Alternating-Current Motors
- 24. Generation of Electrical Energy
- 25. Transmission of Electrical Energy



### **Table of Contents**

- 26. Distribution of Electrical Energy
- 27. The Cost of Electricity
- 28. Direct-Current Transmission
- 29. Transmission and Distribution Solid-State Controllers
- 30. Harmonics

References

**Appendix** 

Index