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Principles of Electric Machines with Power Electronic Applications

Mohamed E. El-Hawary

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Principles of Electric Machines with Power Electronic Applications Mohamed E. El-Hawary
A thoroughly updated introduction to electric machines and adjustable speed drives

All machines have power requirements, and finding the right balance of economy and performance can be a challenge to engineers. Principles of Electric Machines with Power Electronic Applications provides a thorough grounding in the principles of electric machines and the closely related area of power electronics and adjustable speed drives. Designed for both students and professionals seeking a foundation in the fundamental structure of modern-day electric power systems from a technical perspective, this lucid, succinct guide has been completely revised and updated to cover:
* The fundamental underpinnings of electromechanical energy conversion devices
* Transformers
* Induction machines
* Synchronous machines
* DC machines
* Power electronic components, systems, and their applications to adjustable speed drives

Enhanced by numerous solved problems, sample examinations and test sets, and computer-based solutions assisted by MATLAB scripts, this new edition of Principles of Electric Machines with Power Electronic Applications serves equally well as a practical reference and a handy self-study guide to help engineers maintain their professional edge in this essential field.

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