



# Principles of Electric Machines with Power Electronic Applications

By Mohamed E. El-Hawary

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**Principles of Electric Machines with Power Electronic Applications** By 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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#### About the Author

MOHAMED E. EL-HAWARY received a bachelor of engineering degree in electrical engineering from the University of Alexandria in Egypt and a PhD in electrical engineering from the University of Alberta, Canada. He is currently Associate Dean of Engineering at DalTech of Dalhousie University. Dr. El-Hawary is a Fellow of both the IEEE and the Engineering Institute of Canada.

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