



# Electric Energy: An Introduction, Second Edition (Power Electronics and Applications Series)

*Mohamed A. El-Sharkawi*

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## **Electric Energy: An Introduction, Second Edition (Power Electronics and Applications Series)**

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The ongoing search for renewable energy, the societal impact of blackouts, the environmental impact of generating electricity, along with the new ABET criterion have contributed to renewed interest in electric energy as a core subject. Emphasizing modeling, analysis, and real-world issues, this new edition of **Electric Energy** provides a refreshed overview of this increasingly important field.

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- Expanded coverage of the mathematical modeling of renewable systems, power electronics, and electric safety
- A chapter on power quality
- An expanded chapter on machines that includes dc machines and single phase motors
- A chapter on future power systems

Along with the standard topics of power electronics and electromechanical conversion, the text also covers energy resources, power plants, environmental impacts of power generation, power system operation, renewable energy, and electrical safety. Most of the topics are related to issues encountered daily in practice, and most of the examples are from real systems and use real data.

With a flexible structure and exceptional relevance to real-life issues, **Electric Energy, Second Edition** brings together all the topics needed to build the broad-based background today's engineers need.

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