



Electrical Energy Conversion and Transport: An Interactive Computer-Based Approach (IEEE Press Series on Power Engineering)

George G. Karady, Keith E. Holbert

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Provides relevant material for engineering students and practicing engineers who want to learn the basics of electrical power transmission, generation, and usage

This *Second Edition of Electrical Energy Conversion and Transport* is thoroughly updated to address the recent environmental effects of electric power generation and transmission, which have become more important in conjunction with the deregulation of the industry.

The maintenance and development of the electrical energy generation and transport industry requires well-trained engineers who are able to use modern computation techniques to analyze electrical systems and understand the theory of electrical energy conversion. It includes new content that explores different power production methods, such as renewable energy sources (solar, wind, geothermal and ocean), as well as new sections that discuss the upcoming Smart Grid and distributed power generation using renewable energy conversion.

Complete with a Solutions Manual and the use of Mathcad, MATLAB, and PSpice throughout for problem solving, *Electrical Energy Conversion and Transport* offers chapter coverage of:

- Electric Power Systems
- Single-Phase Circuits
- Transmission Lines
- Transformers
- Induction Machines
- Introduction to Power Electronics and Motor Control
- Electric Generating Stations
- Three-Phase Circuits
- Electromechanical Energy Conversion
- Synchronous Machines
- DC Machines

This book is essential reading material for students and practicing engineers in the power industry who would like to learn computer-based electrical energy conversion and transport at their own pace.

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