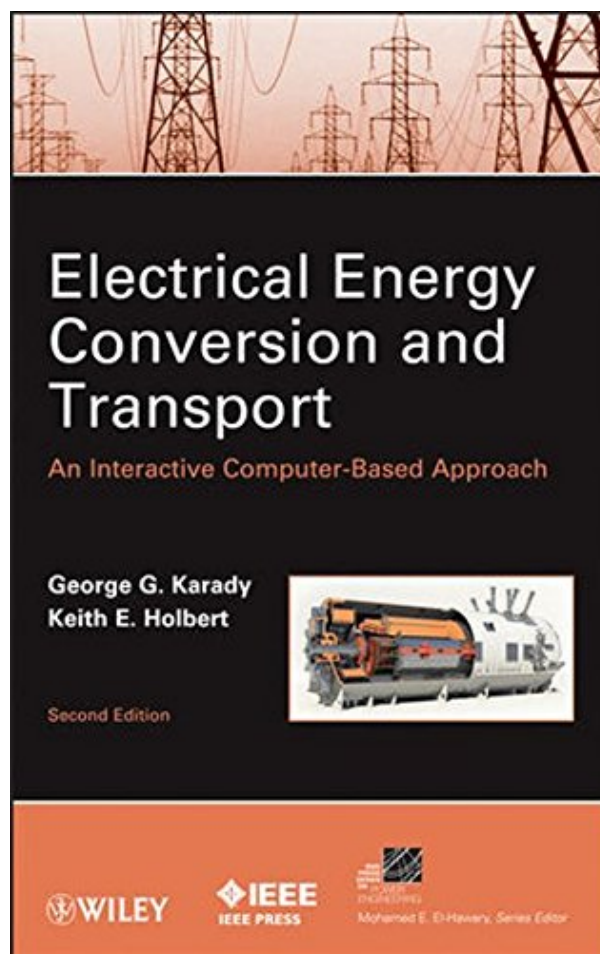
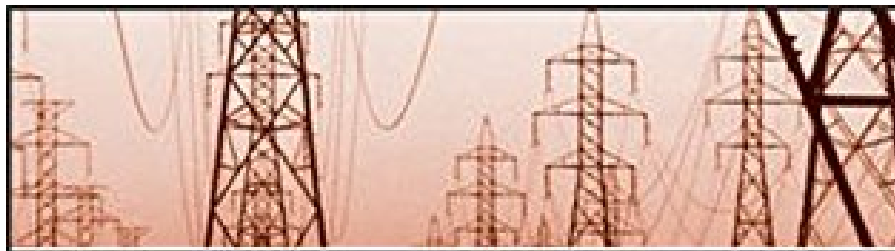


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Electrical Energy Conversion and Transport

An Interactive Computer-Based Approach

George G. Karady
Keith E. Holbert



Second Edition

 WILEY

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 Power Electronics
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Review

“This book is recommended reading for those interested in deepening their knowledge of electrical systems, energy conversion technologies, and the use of computer tools to assist in understanding of complex engineering problems.” (IEEE Power Electronics Society Newsletter, 1 August2013)

From the Back Cover

A powerful new approach to learning a classical engineering subject: active learning

Electrical Energy Conversion and Transport presents a revolutionary computer-assisted teaching method designed to accelerate students' mastery of basic concepts of electric energy conversion and transport through interactive involvement with the material.

The active-learning approach enables students to tackle and solve complicated problems previously thought too difficult at the introductory level. Computers provide immediate feedback enabling a seamless integration of theory and application. Freed from the need to deliver extensive lectures, instructors can now outline the steps of each analysis, then move about the classroom offering guidance, answering questions as students develop equations and reach conclusions.

Important features of this new learning system include:

- An interactive approach using computers to develop operational parameters
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About the Author

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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.

- Sales Rank: #859811 in Books
- Brand: Brand: Wiley-IEEE Press
- Published on: 2013-06-10
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x 1.70" w x 6.40" l, 2.86 pounds

- Binding: Hardcover
- 854 pages

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- Used Book in Good Condition

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