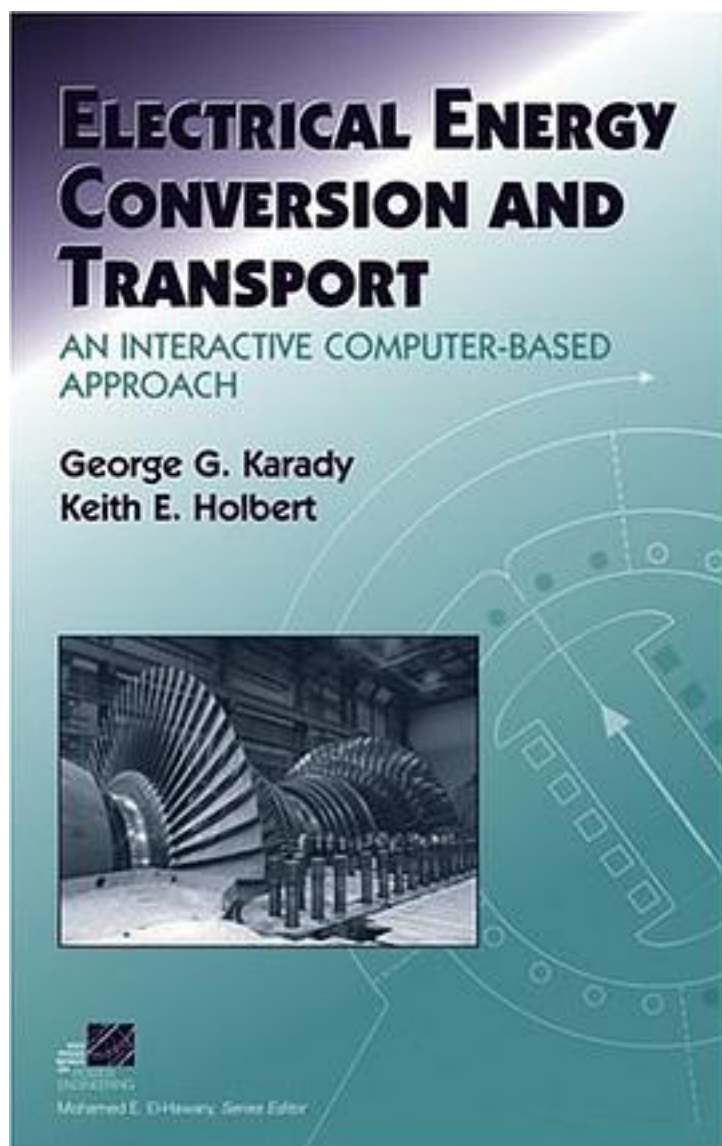


Electrical Energy Conversion and Transport



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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 Computer-assisted derivation of motor and transmission-line operation Use of Mathcad, MATLAB®, and PSpice throughout for problem solving Thorough discussions of contemporary issues such as electronic control of motors and the environmental impact of power generation An ideal self-study reference and introductory course textbook, Electrical Energy Conversion and Transport is essential for the training of engineers who will be able to use modern computational techniques to analyze electric systems. It is also an excellent guide for professionals who want to get up to speed with a computer-based analysis of electrical energy conversion and transport.

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