



Electrical Energy Systems, Second Edition (Electric Power Engineering Series)

By Mohamed E. El-Hawary

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We are witness to the emergence a new generation of power engineers, focused on providing electric energy in a deregulated environment. To educate this new breed, textbooks must take a comprehensive approach to electrical energy and encourage problem solving using modern tools. Updated to reflect recent trends and new areas of emphasis, Mohamed El-Hawary's *Electrical Energy Systems, Second Edition* shifts the teaching of electrical energy and electric power toward a sustainable and reliable paradigm.

Discussions ranging from the technical aspects of generation, transmission, distribution, and utilization to power system components, theory, protection, and the energy control center culminate in the most modern and complete introduction to effects of deregulating electric power systems, blackouts and their causes, and minimizing their effects. The author prepares students for real-world challenges by including numerous examples, problems, and MATLAB® scripts, teaching students to use industry-standard problem-solving tools. This edition also features an entirely new chapter on the present and future of electric energy systems, which highlights new challenges facing system designers and operators in light of modern events and transformations impacting the field.

Providing convenience for instructors in addition to a thoroughly modern education for students, *Electrical Energy Systems, Second Edition* sets a new benchmark for the education of electric power engineering focused on sustainable development and operation of new power systems.

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