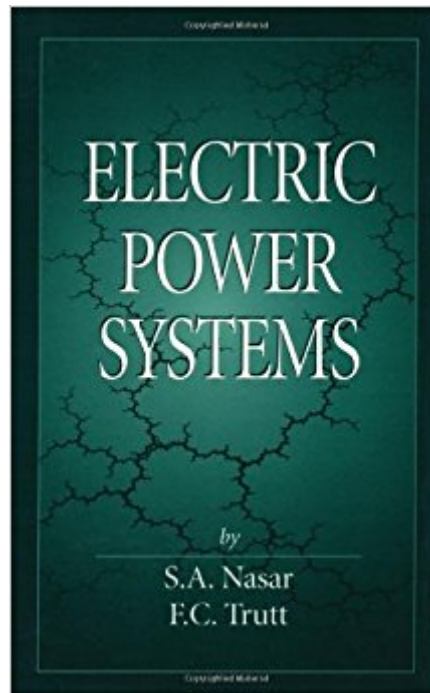




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Electric Power Systems



Synopsis

The field of electrical engineering has become increasingly diversified, resulting in a spectrum of emerging topics - from microelectromechanics to light-wave technology. Keeping pace with progressing technology, and covering the scope of related subjects, Electric Power Systems provides introductory, fundamental knowledge in several areas. The text focuses on three major points: Power flow, Fault calculations, Power systems stability. Using commercially available software packages, Electric Power Systems includes illustrative computer solutions for both utility and industrial systems. Chapters discuss: basic concepts relating to power and energy, ac circuit analysis - emphasizing three-phase circuits, various components of a power system and their simplified models, single-line and reactance diagrams representing a power system with the interconnecting components, power flow, balanced and unbalanced fault calculations, power system protection, analytical and numerical solutions to power system stability problems, economic power dispatch and control of power systems. Written in a clear, lively style, Electric Power Systems illustrates its concepts and methods with many examples, inspired by real-life applications. This work exceptionally fills the need for a textbook teaching the subject in a one-semester sequence.

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