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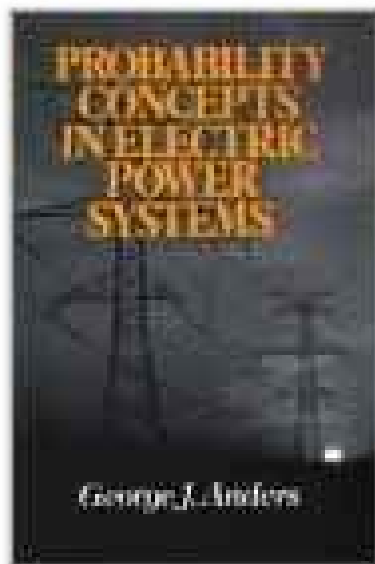
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Offers concise coverage of methods in probability theory and their application in diverse fields of power system analysis and design. Introduces the relevant probability concepts and develops them in the context of power systems applications. Presents many practical examples and illustrations of probabilistic modeling of real-life problems facing power system engineers.

From the Inside Flap

The applications of probability concepts in power system analysis and design now extend beyond the simple collection of data and statistical analysis of outage frequencies and durations. Yet the burgeoning role of probability theory in the design of transmission structures, power system reliability analysis, probabilistic load flow, and short circuit and stability studies, in addition to numerous other areas, has until now only been treated in technical journals. Here is the first single reference on probability methods and their applications in electric power systems. Written for the practicing engineer or student, Probability Concepts in Electric Power Systems introduces advanced probability concepts and illustrates state-of-the-art uses of probabilistic models in actual situations. Most importantly, it will improve the design, analysis, and planning of reliable, cost-efficient electric power systems. Probability Concepts in Electric Power Systems is logically divided into two parts: The first five chapters present a self-contained introduction to probability concepts and demonstrate how seemingly unrelated applications are linked to each other through unified basic probability concepts. Chapters six through fourteen illustrate several new