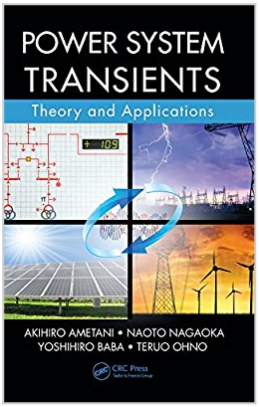

Power System Transients: Theory and Applications

By Akihiro Ametani, Naoto Nagaoka, Yoshihiro Baba, Teruo Ohno

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As a transient phenomenon can shut down a building or an entire city, transient analysis is crucial to managing and designing electrical systems. **Power System Transients: Theory and Applications** discusses the basic theory of transient phenomena?including lumped- and distributed-parameter circuit theories?and provides a physical interpretation of the phenomena. It covers novel and topical questions of power system transients and associated overvoltages.

Using formulas simple enough to be applied using a pocket calculator, the book presents analytical methods for transient analysis. It examines the theory of numerical simulation methods such as the EMTP (circuit-theory based approach) and numerical electromagnetic analysis. The book highlights transients in clean or sustainable energy systems such as smart grids and wind farms, since they require a different approach than overhead lines and cables. Simulation examples provided include arcing horn flashover, a transient in a grounding electrode, and an induced voltage from a lightning channel.

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