



# Distribution System Modeling and Analysis (Electric Power Engineering Series)

*William H. Kersting*

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For decades, distribution engineers did not have the sophisticated tools developed for analyzing transmission systems-often they had only their instincts. Things have changed, and we now have computer programs that allow engineers to simulate, analyze, and optimize distribution systems. Powerful as these programs are, however, without a real understanding of the operating characteristics of a distribution system, engineers using the programs can easily make serious errors in their designs and operating procedures.

Distribution System Modeling and Analysis helps prevent those errors. It gives readers a basic understanding of the modeling and operating characteristics of the major components of a distribution system. One by one, the author develops and analyzes each component as a stand-alone element, then puts them all together to analyze a distribution system comprising the various shunt and series devices for power-flow and short-circuit studies. He includes the derivation of all models and includes many numerical examples that demonstrate applying the models to solve typical problems.

This is the first book dedicated to distribution systems that is truly modern, covers computer applications, and gives a thorough grounding in modeling and analysis techniques. Assuming a basic foundation in transformers, electric machines, transmission lines, and symmetrical components, it serves as both a text for upper-level electrical engineering studies and as an essential reference for practicing engineers.

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