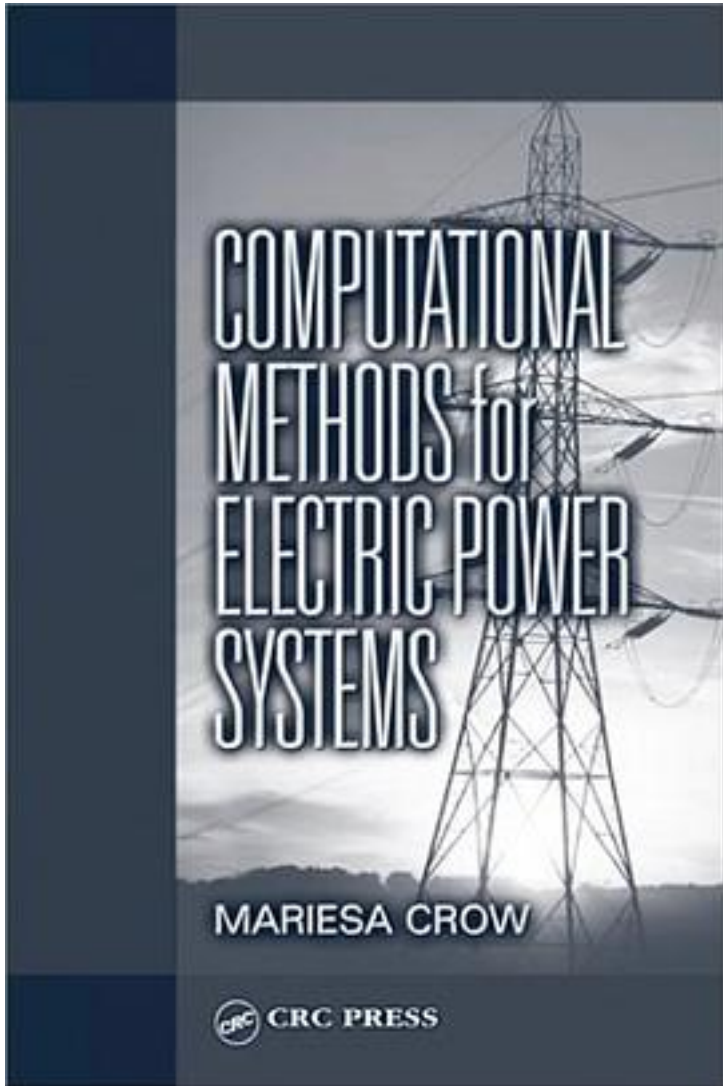


Computational Methods for Electric Power Systems



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The sheer size of today's power grid and the increasingly stressed conditions under which power systems operate demand the use of computers for analysis and simulations. Yet commercial software packages often fail or give erroneous results when used to simulate stressed systems. To correctly interpret the results, it is therefore imperative that power engineers understand the underlying numerical algorithms of the software. "Computational Methods for Electric Power Systems" provides a comprehensive study of the various computational methods that form the basis of many analytical studies of power systems. It presents the analytical background of the algorithms used in many commercially available software packages, thereby enabling readers to make more informed decisions in their use of the software and correctly interpret their results. The book furnishes a well-balanced discussion of the theory and applications of the algorithms and supports them with instructional examples and illustrations. As more and more demands are placed on the nation's power systems, predicting and updating the operating status of a network through systems analysis becomes increasingly important. This book builds the background necessary to successfully perform that analysis and prepares readers to cope with any difficulties they may encounter in practice.

作者介绍:

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