#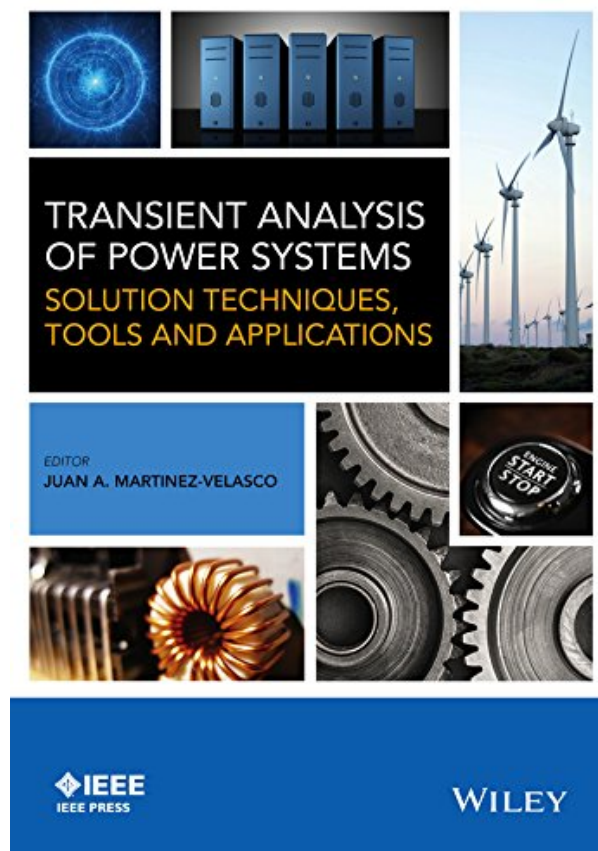 TRANSIENT ANALYSIS OF POWER SYSTEMS: SOLUTION TECHNIQUES, TOOLS AND APPLICATIONS (WILEY - IEEE) FROM MARTINEZ-VELASCO, JUAN A. (EDT)



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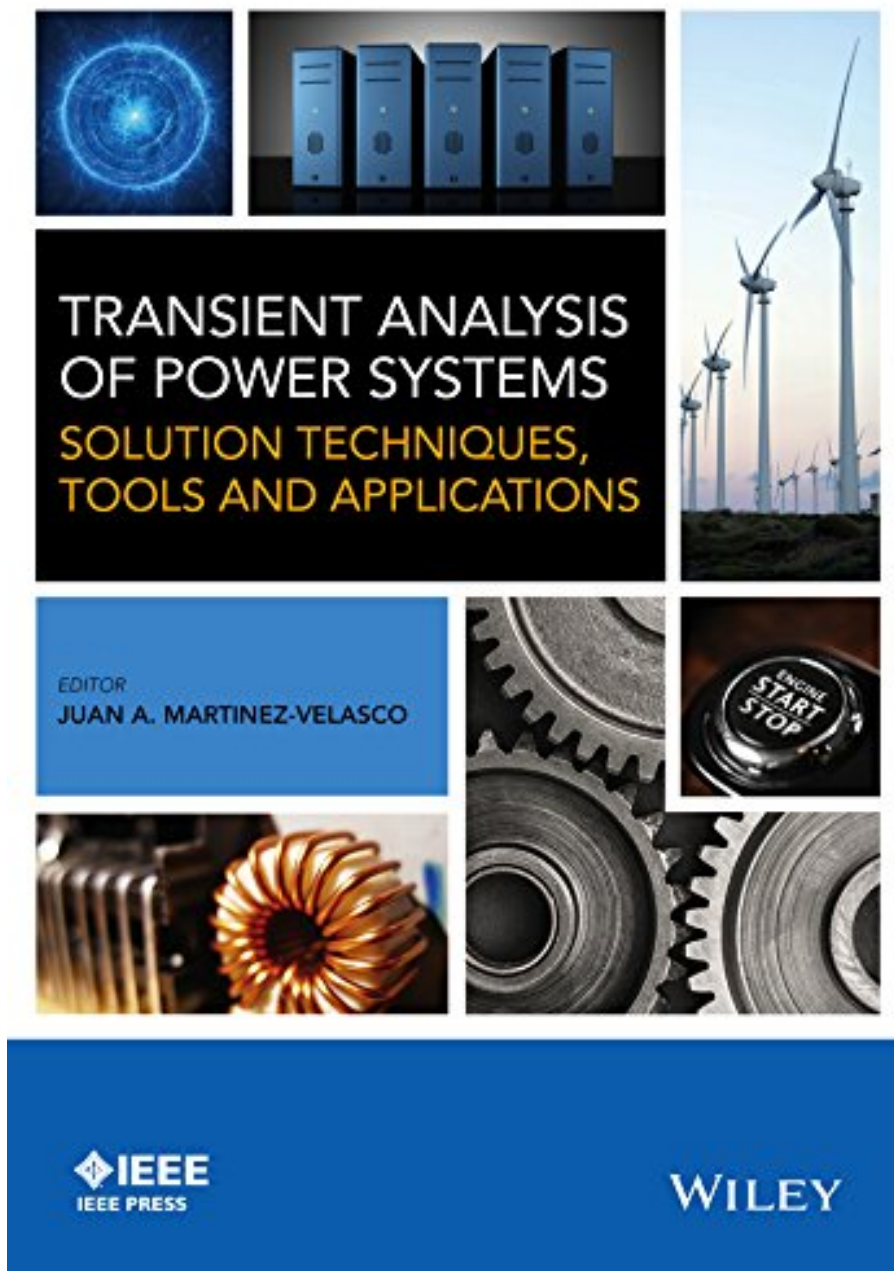
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The simulation of electromagnetic transients is a mature field that plays an important role in the design of modern power systems. Since the first steps in this field to date, a significant effort has been dedicated to the development of new techniques and more powerful software tools. Sophisticated models, complex solution techniques and powerful simulation tools have been developed to perform studies that are of supreme importance in the design of modern power systems. The first developments of transients tools were mostly aimed at calculating over-voltages. Presently, these tools are applied to a myriad of studies (e.g. FACTS and Custom Power applications, protective relay performance, simulation of smart grids) for which detailed models and fast solution methods can be of paramount importance.

This book provides a basic understanding of the main aspects to be considered when performing electromagnetic transients studies, detailing the main applications of present electromagnetic transients (EMT) tools, and discusses new developments for enhanced simulation capability.

Key features:

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About the Author

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- Sales Rank: #547104 in Books
- Brand: Martinez-velasco, Juan A. (EDT)
- Published on: 2015-01-27
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.48" w x 7.00" l, .0 pounds
- Binding: Hardcover
- 648 pages

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