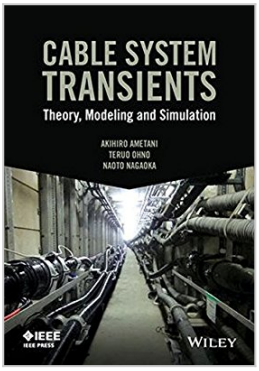

Cable System Transients: Theory, Modeling and Simulation (Wiley - IEEE)

By Akihiro Ametani, Teruo Ohno, Naoto Nagaoka

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A systematic and comprehensive introduction to electromagnetic transient in cable systems, written by the internationally renowned pioneer in this field

- Presents a systematic and comprehensive introduction to electromagnetic transient in cable systems
- Written by the internationally renowned pioneer in the field
- Thorough coverage of the state of the art on the topic, presented in a well-organized, logical style, from fundamentals and practical applications
- A companion website is available

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- Sales Rank: #3263057 in Books
- Published on: 2015-08-10
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x .95" w x 6.90" l, .0 pounds
- Binding: Hardcover
- 550 pages

Editorial Review

Review

"Because the authors have included fundamental background theory, and much practical information, this book will be considered a reference standard on power cable transients for many years." (*IEEE Electrical Engineering magazine*, 1 January 2016)

From the Back Cover

Written by internationally renowned pioneers in the field, this book is a systematic and comprehensive introduction to electromagnetic transients in cable systems. Cable structures, methods to derive the parameters of the equivalent circuits for cables, analytical methods for calculating electromagnetic transients in power systems, and the characteristics of electromagnetic transients in cable systems, are all covered in detail and are backed up by decades of research. Other important topics include EMTP simulation models of cables, validation of modeling techniques and emerging issues associated with cable system transients in distributed resources such as wind farms and solar power plants.

• Presents a systematic and comprehensive introduction to electromagnetic transients in cable systems

• Written by internationally recognized experts in the field

• Thorough coverage of the state of the art, presented in a well-organized, logical style, taking readers through fundamentals all the way to practical applications

• A companion website includes PowerPoints related to cable transients that are beneficial to lecturers and readers

Cable System Transients: Theory, Modeling and Simulation will provide readers wishing to refresh their knowledge in the subject area with an in-depth understanding of power cable modeling. This book is intended for advanced students, researchers, and engineers in the fields of electrical engineering, high-voltage engineering and power systems.

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