

Methodology and Technology for Power System Grounding

By Jinliang He, Rong Zeng, Bo Zhang

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Grounding is the fundamental measures to ensure the safe operation of power systems, including power apparatus and control/monitoring systems, and guarantee the personal safety. Grounding technology is an interdisciplinary involving electrical engineering, high voltage technology, electric safety, electromagnetics, numerical analysis, and geological exploration

Methodology and Technology for Power System Grounding:

- Covers all topics related to power system grounding
- Presents fundamentals and theories of grounding systems
- Well balances technology and methodology related to grounding system design
- Helps to understand the grounding analysis softwares
- Highlights the advanced research works in the field of grounding systems
- Comprehensively introduces numerical analysis methods
- Discovers impulse ionization phenomenon of soil around the grounding conductors
- Touches on lightning impulse characteristics of grounding devices for towers and buildings

As a comprehensive treatment of the topic, *Methodology and Technology for Power System Grounding* is ideal for engineers and researchers in power system, lightning protection, and grounding. The book will also better equip postgraduates, senior undergraduate students in electrical engineering.

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Bibliography

- Sales Rank: #3298320 in Books
- Published on: 2012-07-31
- Original language: English
- Number of items: 1
- Dimensions: 9.85" h x 1.20" w x 6.90" l, 2.18 pounds
- Binding: Hardcover
- 550 pages

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