



Electric Power Substations Engineering Third Edition

Combining select chapters from Leonard Grigsby's *The Electric Power Engineering Handbook* with several not found in the original work, **Electric Power Substations Engineering** has become a widely popular volume on the theory, design, analysis, operation, and protection of power substations. Once again part of the handbook, this third edition presents contributions from active leaders around the world. Coverage reflects international standards, practices, and technologies—not just those used in North America. Updated to include the latest developments, trends, and technologies, this proven resource once again provides a thorough and up-to-date guide for power engineers at all levels of expertise.

Features

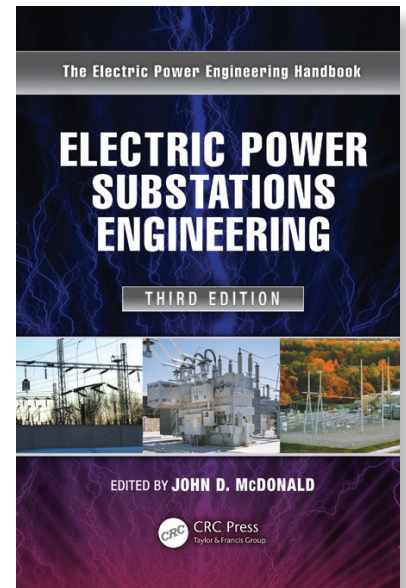
- Includes contributions from international leaders in power substation engineering
- Covers the latest developments, trends, and technologies
- Offers an up-to-date guide for engineers of all levels of expertise

Selected Table of Contents

How a Substation Happens. Gas-Insulated Substations. Air-Insulated Substations—Bus/Switching Configurations. High-Voltage Switching Equipment. High-Voltage Power Electronic Substations. Interface between Automation and the Substation. Substation Integration and Automation. Oil Containment. Community Considerations. Animal Deterrents/Security. Substation Grounding. Direct Lightning Stroke Shielding of Substations. Seismic Considerations. Substation Fire Protection. Substation Communications. Physical Security of Substations. Cyber Security of Substation Control and Diagnostic Systems. Gas-Insulated Transmission Line. Substation Asset Management. Station Commissioning and Project Closeout. Energy Storage. Role of Substations in Smart Grid.

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Edited by

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