Environmental Impacts on Underground Power Distribution

Part of the Advances in Computer and Electrical Engineering Book Series

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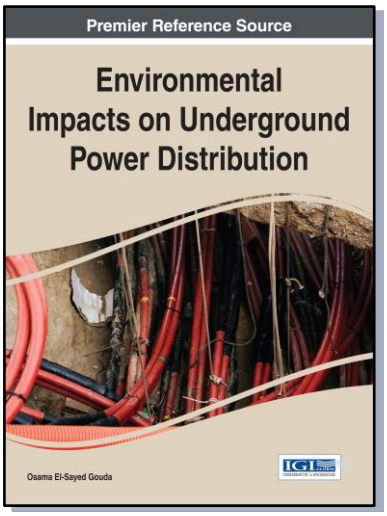

Description:

The successful transmission of electrical power beneath the surface of the earth depends on a number of factors including ambient temperature, sheath bonding, cable laying depth, and especially the formation of dry zones around underground cables.

Environmental Impacts on Underground Power Distribution studies the factors which affect the maximum current rating of subterranean power cables as well as various methods to maximize electrical current transmission. Focuses on the latest tools, methodologies, and research in the field.

Readers:

This publication is designed for use by electrical engineers, academicians, researchers, and upper-level students.

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Topics Covered:

- Artificial Backfill Materials
- Cable Losses
- Cross Bonding System
- Dry Zones
- Electric Power Transmission
- Heat Flux Density
- Thermal Resistivity

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Osama El-Sayed Gouda is the professor of electrical Power engineering and high voltage in the Dept. of electrical power and machine, Faculty of Engineering, Cairo University since 1993. He teaches several courses in Power system, High voltage, Electrical machine, Electrical measurements, Protection of electrical power system and Electrical installation. He is a consultant of several Egyptian firms. He conducted more than 145 papers in the field of Electrical power system and High Voltage Engineering. He supervised about 72 M.SC. and Ph.D. thesis. He conducted more than 170 short courses about the Electrical Power, Machine & High voltage subjects for the field of Electrical Engineers in Egypt and abroad.