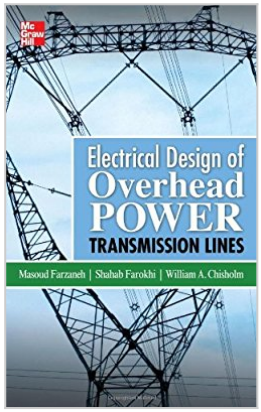

Electrical Design of Overhead Power Transmission Lines (Electronics)

By Masoud Farzaneh, Shahab Farokhi, William Chisholm

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Complete coverage of power line design and implementation

"This text provides the essential fundamentals of transmission line design. It is a good blend of fundamental theory with practical design guidelines for overhead transmission lines, providing the basic groundwork for students as well as practicing power engineers, with material generally not found in one convenient book." IEEE Electrical Insultation Magazine

Electrical Design of Overhead Power Transmission Lines discusses everything electrical engineering students and practicing engineers need to know to effectively design overhead power lines. Cowritten by experts in power engineering, this detailed guide addresses component selection and design, current IEEE standards, load-flow analysis, power system stability, statistical risk management of weather-related overhead line failures, insulation, thermal rating, and other essential topics. Clear learning objectives and worked examples that apply theoretical results to real-world problems are included in this practical resource.

Electrical Design of Overhead Power Transmission Lines covers:

- AC circuits and sequence circuits of power networks
- Matrix methods in AC power system analysis
- Overhead transmission line parameters
- Modeling of transmission lines
- AC power-flow analysis using iterative methods
- Symmetrical and unsymmetrical faults
- Control of voltage and power flow
- Stability in AC networks
- High-voltage direct current (HVDC) transmission
- Corona and electric field effects of transmission lines
- Lightning performance of transmission lines
- Coordination of transmission line insulation

- Ampacity of overhead line conductors

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- Sales Rank: #1728540 in Books
- Brand: Brand: McGraw-Hill Professional
- Published on: 2012-10-03

- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x 1.40" w x 6.40" l, 2.02 pounds
- Binding: Hardcover
- 560 pages

Editorial Review

About the Author

Masoud Farzaneh, an internationally renowned expert in the field of power engineering, is a professor of Electrical Engineering at the Universite du Quebec a Chicoutimi (UQAC). Farzaneh, who receive a Doctor d'Etat in 1986, has taught more than 100 undergraduate and graduate course sessions in electric power engineering. He is a Fellow of the IEEE, IET, and Engineering Institute of Canada.

Shahab Farokhi, Ph.D., received his PhD in 2010. He has taught graduate-level courses in Advanced Power Network Transmission and Operating and Power System Analysis at the Université du Québec à Chicoutimi (UQAC). He joined the faculty of Glasgow Caledonian University in 2012.

William A. Chisholm, Ph.D., received a Doctorate in Electrical Engineering from the University of Waterloo. He has co-supervised more than ten graduate students and delivered industrial training and graduate courses on weather effects on overhead lines. Dr. Chisholm is Secretary of the IEEE Transmission and Distribution Committee and contributes a column to INMR, a quarterly technical magazine for the electrical industry.

Users Review

From reader reviews:

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