



High Voltage Engineering

Farouk A.M. Rizk, Giao N. Trinh

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Inspired by a new revival of worldwide interest in extra-high-voltage (EHV) and ultra-high-voltage (UHV) transmission, **High Voltage Engineering** merges the latest research with the extensive experience of the best in the field to deliver a comprehensive treatment of electrical insulation systems for the next generation of utility engineers and electric power professionals. The book offers extensive coverage of the physical basis of high-voltage engineering, from insulation stress and strength to lightning attachment and protection and beyond.

Presenting information critical to the design, selection, testing, maintenance, and operation of a myriad of high-voltage power equipment, this must-have text:

- Discusses power system overvoltages, electric field calculation, and statistical analysis of ionization and breakdown phenomena essential for proper planning and interpretation of high-voltage tests
- Considers the breakdown of gases (SF₆), liquids (insulating oil), solids, and composite materials, as well as the breakdown characteristics of long air gaps
- Describes insulation systems currently used in high-voltage engineering, including air insulation and insulators in overhead power transmission lines, gas-insulated substation (GIS) and cables, oil-paper insulation in power transformers, paper-oil insulation in high-voltage cables, and polymer insulation in cables
- Examines contemporary practices in insulation coordination in association with the International Electrotechnical Commission (IEC) definition and the latest standards
- Explores high-voltage testing and measuring techniques, from generation of test voltages to digital measuring methods

With an emphasis on handling practical situations encountered in the operation of high-voltage power equipment, **High Voltage Engineering** provides readers with a detailed, real-world understanding of electrical insulation systems, including the various factors affecting and the actual means of evaluating insulation performance and their application in the establishment of technical specifications.

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