



Electric Field Analysis

Sivaji Chakravorti

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Electric Field Analysis is both a student-friendly textbook and a valuable tool for engineers and physicists engaged in the design work of high-voltage insulation systems. The text begins by introducing the physical and mathematical fundamentals of electric fields, presenting problems from power and dielectric engineering to show how the theories are put into practice. The book then describes various techniques for electric field analysis and their significance in the validation of numerically computed results, as well as:

- Discusses finite difference, finite element, charge simulation, and surface charge simulation methods for the numerical computation of electric fields
- Provides case studies for electric field distribution in a cable termination, around a post insulator, in a condenser bushing, and around a gas-insulated substation (GIS) spacer
- Explores numerical field calculation for electric field optimization, demonstrating contour correction and examining the application of artificial neural networks
- Explains how high-voltage field optimization studies are carried out to meet the desired engineering needs

Electric Field Analysis is accompanied by an easy-to-use yet comprehensive software for electric field computation. The software, along with a wealth of supporting content, is available for download with qualifying course adoption.

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