

High Voltage Engineering Fundamentals Second Edition

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In brief

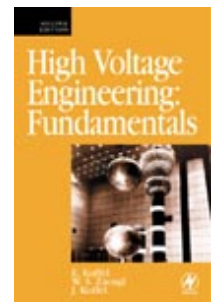
Power transfer for large systems depends on high system voltages. The basics of high voltage laboratory techniques and phenomena, together with the principles governing the design of high voltage insulation, are covered in this book for students, utility engineers, designers and operators of high voltage equipment.

- **A classic text on high voltage engineering**
- **Entirely revised to bring you up-to-date with current practice**
- **Benefit from expanded sections on testing and diagnostic techniques**

'This revision of a well respected book is an important contribution to the understanding of high-voltage engineering and every serious worker in this field should ensure that they have access to a copy.'

Collin Cooper, Emeritus Professor of Electrical Engineering, UMIST.

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In this new edition the text has been entirely revised to reflect current practice. Major changes include coverage of the latest instrumentation, the use of electronegative gases such as sulfur hexafluoride, modern diagnostic techniques, and high voltage testing procedures with statistical approaches.

Contents

Introduction; Generation of high voltages; Measurement of high voltages; Electrostatic fields and field stress control; Electrical breakdown in gases; Breakdown in solid and liquid dielectrics; Non-destructive insulation test techniques; Overvoltages, testing procedures and insulation coordination; Design and testing of external insulation; Index

Readership: Students studying high voltage engineering (postgraduate taught courses or third year undergraduate options); university libraries; power engineering or traditional electrical engineering degree students. Utility Engineers. Designers and operators of high voltage equipment.

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