



High Impulse Voltage and Current Measurement Techniques: Fundamentals – Measuring Instruments – Measuring Methods

By Klaus Schon

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Equipment to be installed in electric power-transmission and distribution systems must pass acceptance tests with standardized high-voltage or high-current test impulses which simulate the stress on the insulation caused by external lightning discharges and switching operations in the grid. High impulse voltages and currents are also used in many other fields of science and engineering for various applications. Therefore, precise impulse-measurement techniques are necessary, either to prevent an over- or understressing of the insulation or to guarantee the effectiveness and quality of the application. The target audience primarily comprises engineers and technicians but the book may also be beneficial for graduate students of high-voltage engineering and electrical power supply systems.

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- Sales Rank: #3613112 in Books
- Published on: 2013-07-03
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x .80" w x 6.10" l, 1.15 pounds
- Binding: Hardcover
- 264 pages



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Editorial Review

From the Back Cover

Equipment to be installed in electric power-transmission and distribution systems must pass acceptance tests with standardized high-voltage or high-current test impulses which simulate the stress on the insulation caused by external lightning discharges and switching operations in the grid. High impulse voltages and currents are also used in many other fields of science and engineering for various applications. Therefore, precise impulse-measurement techniques are necessary, either to prevent an over- or understressing of the insulation or to guarantee the effectiveness and quality of the application.

The book deals with:

- principal generator circuits for generating high-voltage and high-current impulses
- measuring systems and their calibration according to IEC 60060 and IEC 62475
- methods of estimating uncertainties of measurement
- mathematical and experimental basis for characterizing the transfer behavior of spatially extended systems used for measuring fast transients.

This book is intended for engineers and technicians as well as students of high-voltage engineering and electrical power supply systems.

Users Review

From reader reviews:

Lydia Sanders:

What do you think about book? It is just for students since they're still students or it for all people in the world, the particular best subject for that? Merely you can be answered for that issue above. Every person has several personality and hobby per other. Don't to be compelled someone or something that they don't would like do that. You must know how great and also important the book High Impulse Voltage and Current Measurement Techniques: Fundamentals – Measuring Instruments – Measuring Methods. All type of book can you see on many methods. You can look for the internet options or other social media.

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