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This book conveys the

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theoretical and experimental
basics of a well-founded
measurement technique in the
areas of high DC, AC and surge
voltages as well as the
corresponding high currents.
Additional chapters explain the

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acquisition of partial discharges and the electrical measured variables. Equipment exposed to very high voltages and currents is used for the transmission and distribution of electrical energy. They are therefore tested for

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reliability before commissioning using standardized and future test and measurement procedures. Therefore, the book also covers procedures for calibrating measurement systems and determining

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measurement uncertainties, and the current state of measurement technology with electro-optical and magneto-optical sensors is discussed.

Electric Power Transformer
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expounds the latest information and developments to engineers who are familiar with basic principles and applications, perhaps including a hands-on working knowledge of power transformers. Targeting all from

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the merely curious to seasoned professionals and acknowledged experts, its content is structured to enable readers to easily access essential material in order to appreciate the many facets of an electric power

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transformer. Topically structured in three parts, the book: Illustrates for electrical engineers the relevant theories and principles (concepts and mathematics) of power transformers Devotes complete

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chapters to each of 10 particular embodiments of power transformers, including power, distribution, phase-shifting, rectifier, dry-type, and instrument transformers, as well as step-voltage regulators, constant-

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voltage transformers,
transformers for wind turbine
generators and photovoltaic
applications, and reactors
Addresses 14 ancillary topics
including insulation, bushings,
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writing and use of photographs and graphics to help the reader understand the material.

Important chapters have been retained from the second edition; most have been significantly expanded and updated for this

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third installment. Each chapter is replete with photographs, equations, and tabular data, and this edition includes a new chapter on transformers for use with wind turbine generators and distributed photovoltaic arrays.

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Jim Harlow and his esteemed group of contributors offer a glimpse into the enthusiastic community of power transformer engineers responsible for this outstanding and best-selling work. A volume in the Electric

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that a well-defined method
of test is needed to get
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type of capacitor.

American Ultraminiature
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the very smallest electronic
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United States. This book presents the increasing trend towards the utilization of high density packaging and microelectronic techniques. Organized into 31 chapters, this book begins with an

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overview of the general features of the Honeywell GG322 Solid-State Accelerometer. This text then presents the general data of the Atlas Microminiature Piston Actuator, an explosive-

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actuated device for producing linear motion. Other chapters consider the characteristics of micro-sized Hypercon capacitors, which are designed to meet the need for tiny capacitors in low-voltage circuits such

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as are used in hearing aids, ultra-miniature electronic gear, etc. This book discusses as well the features of Sprague Ceramite disc capacitors for use in low-voltage transistorized circuitry.

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*This book meets the vital need
of providing one place where a
comprehensive information on
how to test more than one type*

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of electronic component. The monograph gathers together data from scattered literature, including books, manufacturers' guides, instruction manuals, application notes and military

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and industry standards and provides a key information necessary to allow users to get started immediately on component testing and presents effective options for handling high-, low- and

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provides the background
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***major transformer types, and
fourteen chapters cover many
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***Throughout the book, tables,
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