

FEATURE ARTICLES

5 *Energy Storage in Polymer Films with High Dielectric Constant Fillers*

Ling (Annie) An, Steven A. Boggs, and Jeffrey P. Calame

The extensive computations presented suggest that relatively high dielectric contrast is desirable to achieve a large, effective dielectric constant and energy density.

11 *Condition Monitoring of Power Transformers—Bibliography Survey*

Jashandeep Singh, Yog Raj Sood, Raj Kumar Jarial, and Piush Verma

There is a worldwide need for up-to-date bibliographic information on power transformer insulation in the academic, research, and engineering communities.

26 *Progress and Prospects in PEA Space Charge Measurement Techniques*

Kaori Fukunaga

Space charge measurements using electroacoustic techniques have dramatically improved in the past 20 years, and they have revealed many interesting phenomena in dielectrics.

38 *A Framework Linking Knowledge of Insulation Aging to Asset Management*

Sanjay Bahadoorsingh and Simon Rowland

A multifactor aging framework is described that links the work of those involved in studying aging of dielectrics to the needs of those involved in asset management and network performance.

Cover Photo:

Professor Gian Carlo Montanari,
2008 T. W. Dakin Awardee

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