

FEATURE ARTICLES

7 Health Indexes for Power Transformers: A Case Study

*Félix Ortiz, Inmaculada Fernández, Alfredo Ortiz,
Carlos J. Renedo, Fernando Delgado, and Cristina Fernández*

It seems essential that a health index for a power transformer should take into account the age of the transformer and its loading in service.

18 State of the Art in Insulation of Gas Insulated Substations: Main Issues, Achievements, and Trends

Giovanni Mazzanti, Giovanni Stomeo, and Stefano Mancini

The main issues, achievements, and trends over the last four decades in research and development in the insulation of gas insulated substations are discussed.

32 Impulse Voltage Distribution and Frequency Response of Intersheild Windings

Mehdi Bagheri, B. T. Phung, and Mohammad Salay Naderi

In transformers with intersheild windings, inserting shield turns between winding conductors increases the series capacitance, and results in a more linear impulse voltage distribution and fewer oscillations in the frequency response.

41 Partial Discharge Detection in Medium Voltage and High Voltage Cables: Maximum Distance for Detection, Length of Cable, and Some Answers

Gian Carlo Montanari

This article provides a simple background to clarify the problem of detection distance for partial discharge occurring in cable systems, presenting models, simulations, and measurements, which could help unravel this complex matter.

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Robert Fleming*

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