

FEATURE ARTICLES

5 *HVDC Cable Design and Space Charge Accumulation. Part 3: Effect of Temperature Gradient*

D. Fabiani, G. C. Montanari, C. Laurent, G. Teysse, P. H. F. Morshuis, R. Bodega, and L. A. Dissado

The effect of a temperature gradient in MV-size cables is significantly larger than in mini-cables, which requires a careful approach to the exploitation of results obtained on mini or MV-size cables to full-size HV cables.

15 *Manufacturing and Performance Criteria for Medium Voltage Power Cable Semiconducting Shields*

W. R. Kegerise

Cable shield compounds must meet many requirements simultaneously in the context of an overall cable system which consists of conductors, shields, insulation, and jacket.

22 *Lifetime Characteristics of Nanocomposite Enameled Wire Under Surge Voltage Application*

N. Hayakawa and H. Okubo

V-N characteristics exhibited longer times to breakdown for nanocomposite enameled wires and the PD resistance increased with increasing nanofiller concentration.

28 *Development of RTV Silicone Coatings in China: Overview and Bibliography*

Zhidong Jia, Su Fang, Haifeng Gao, Zhicheng Guan, Liming Wang and Zhihai Xu

Since RTV silicone coating was first used in China in 1986, 22 years of successful experience has demonstrated that RTV SIR coating is an effective method to prevent pollution flashover.

Cover Photo:

Vancouver, BC, where the 2008 ISEI will be held.
Photo courtesy of Tourism Vancouver.

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