

Signalment

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Research Topics

- Thermal Calculations and Testing of Switchgears in Case of Load and Short Circuit Current
- Mechanical Calculations and Testing of Switchgears in Case of Peak Current
- Infrared Diagnosis on Electrical Contacts and Joints
- Determination of Residual Life of Switchgears
- Measuring Low Resistances with a Microohm Meter
- Long Term Testing of Electrical Contacts and Joints with ac dc
- Pressure Rise Calculation due to Internal Arcs
- Determination of Burning Through of Enclosures due to Internal Arcs
- Calculation and Measurements on Magnetic and Electrical Low-Frequency-Fields
- Dissolved Gas Analysis on Transformers
- Design of Heavy Current Parts in Big Transformers
- Design and Testing of Fuses
- Design of Current Transformers
- Measuring Low Resistances with a Microohm Meter
- Determination of BH Characteristics and Losses using an Epstein Frame
- Short Circuit Current and Selectivity Calculation
- Calculation and Measurement of Power Quality
- Testing and Evaluation of Earthing and Grounding Equipment
- Design of Disconnectors, Separator and Circuit Breakers in LV, MV and HV
- Evaluation of Protective Gear against Internal Arcs
- Heating of Grounded Cables
- Measurement of Thermal Conductivity of Sand and Soil near Cables
- Heating of Overhead Lines
- Heating of Busbar Systems
- Design of Fully Insulated Busbars
- Thermal Design of GIS and GIL
- Design and Implementation of Heat Pipes into Switchgears
- Determination of Skin and Proximity Effects
- Treatment of Shielding of Cables
- High Current Testing Ground for 10 kA (ac, dc) and 30 kA (peak)
- High Voltage Testing Ground for 300 kV (ac, switching and lightning voltage)
- Measurement of Partial Discharges
- Software Development
- Experting Activities