

ACCEPTED PAPERS

Materials, Components and New Technologies

1. (Invited Paper) **M. Sojer**
Voltage Regulating Distribution Transformers as new Grid Asset
2. **I. Perišić, S. Carević, W. Hofer, J. Hämmer**
New generation of voltage regulated distribution transformer
3. **H. Opačak, A. Pavlinić**
Analysis of Affected Phenomena on Electronic OLTC Design for Distribution Transformers
4. **G. Skelo, E. Osmanbasic**
Tap Changer Condition Assessment Using Dynamic Resistance Measurement
5. **P. Kung, R. Idsinga, C. (J. Bin) Fu, H. Chaska, V. Durand, M. Comanici**
FiberOptics Sensor monitoring Moisture Transport in oil in an Operating Transformer
6. **M. Krüger, M. Anglhuber, U. Ranninger, S. Hoek**
New Experience with Diagnostic Measurements and Fault Findings on Power Transformers
7. **R. P. Marek, R. Szewczyk**
Revised sealed tube test procedure for thermal verification of liquid-immersed transformer insulation systems
8. **D. Filipović-Grčić, B. Filipović-Grčić, D. Krajtner**
Frequency response and harmonic distortion testing of inductive voltage transformer used for power quality measurements
9. **D. Brezak, D. Filipović-Grčić**
Improvement of ultrasonic method for testing of power transformers
10. **R. Płatek, R. Sekuła, K. Kasza, A. Rybak**
Material and processing aspects in dry transformers
11. **C. Müller, Z. Zhang, R. Schwarz, G. Pukel, F. Wiesbrock, U. Schichler, M. Muhr**
Partial Discharge Behavior of Bonded Transformerboards
12. **P. Gabrić, A. Mikulecky**
Sample Size Planning in Experimental Research of Dielectric Stress in Oil-barrier Transformer Insulation
13. **J. Hao, R. Liao, G. Chen, Y. Li, M. Dan**
Cellulosic Particles Accumulation and Conductivity Characteristics of Natural Ester Used in Power Transformer
14. **V. Haramija, B. Musulin, D. Vrsaljko**
The Causes and Consequences of Rubber Incompatibility with Synthetic Ester
15. **D. Vrsaljko, V. Haramija, B. Musulin, V. Đurina**
Chemistry in transformer business: from materials to transformers and their diagnostics
16. **Z. Čeralinac, T. Karažija**
Quality control of coating and sealing materials embedded in transformer components
17. **F. Dollinger**
Frequency converter as power supply for transformer testing
18. **Z. Godec, F. Razum**
Uncertainties in the measurement of load and no-load losses in power transformers
19. **T. Šimović, M. Stanić**
In-phase and phase shifting voltage regulation in autotransformer 200 MVA, 220/115/(10.5) kV for HE Senj and possibility of change over between in-phase and phase shifting voltage regulation in energized state
20. **G. Rovišan, G. Plišić, F. Kelemen**
Influence of capacitive no-load current component in large power transformers
21. **N. Jaman, D. Peharda, I. Ivanković**
Using Data from SCADA for Centralized Transformer Monitoring Applications
22. **B. Das, Z. Radakovic**
Experimental evaluation of transformer derating due to its positioning in kiosk enclosure
23. **L. Štrac**
Three-Phase Shunts for Stray Magnetic Field

24. **Z. Janic, N. Gavrilov, A. Singh, I. Telalovic**
Cooling Set-up and Ambient Temperature Influence on Power Transformer Efficiency

Transformer Life Management

1. (Invited Paper) **P. Picher, S. Tenbohlen, M. Lachman, A. Scardazzi, P. Patel**
Objective interpretation methodology for the condition assessment of transformer windings
2. **K. N. Dinesh Babu, P. K. Gargava**
Inrush / Fault Current Detection for Accelerated Fault Clearance to Enhance Transformer Life
3. **F. Bachinger, P. Hamberger**
Thermal measurement of an ester-filled power transformer at ultra-low temperatures - steady state
4. **R. P. P. Smeets, S. Subramany, K. van der Linden**
Verification of the short-circuit withstand capability of transformers
5. **B. Perunicic, M. Markovic, S. Rebric**
Influence of voltage from renewable energy on power transformers in transmission system
6. **D. Pejovski, K. Najdenkoski, M. Digalovski**
Impact of different harmonic loads on distribution transformers
7. **L.A. Darian, R.M. Obratsov**
The Research of Methanol Generation in Power Transformers Being in Service at Substations of Distribution Network
8. **A. Babizki, M. Foata, K. Lindl, D. Beerboom, E. Pawlowski, M. Zdrallek, R. Funk, J. P. Linossier**
Practical approach for fleet management of transformers considering different stakeholder's perspectives
9. **W. Sorgatz, N. Ruskowski**
Contamination free oil sampling the key to avoid misinterpretation of your oil sample
10. **T. Jaković, I. Murat, F. Klarić, S. Keitoue**
Transformer Fleet Monitoring
11. **C. Sumereder, U. Trattng, R. Fischer, F. Uhlig**
Oil Viscosity as Aging Indicator
12. **I. Nujić, S. Gazivoda**
Effectiveness of on-site diagnostics for prevention of fault on transformers
13. **I. Krajisnik, E. Osmanbasic**
Importance of Transformer Demagnetization
14. **I. Al Balushi, T. Al Abri, M. Al Zadjali**
Estimating remaining life of transformer in Oman
15. **M. Al Zadjali, I. Al Balushi, T. Al Abri**
Monitoring the Condition of Power Transformers by Implementing Health Index and Risk Index in OETC
16. **I. Al Balushi, T. Al Abri, M. Al Zadjali**
Case study: effectiveness of Transformer firefighting (deluge) System in Oman Electricity Transmission Company (OETC) network
17. **M. Al Zadjali, I. Al Balushi, T. Al Abri**
Presence of Corrosive Sulfur in Transformers in OETC network Investigation and Mitigations
18. **S. Keitoue, I. Murat, I. Ivanković, B. Filipović-Grčić, B. Franc, I. Pavić, I. Uglešić**
Monitoring of transient overvoltages in the power transformers and shunt reactors – field experience in the Croatian power transmission system
19. **M. Skelton, M. Tozzi, A. Mudryk, P. Marshall**
Extending Asset Life through Online Monitoring
20. **S. Tenbohlen, M. Beltle, M. Siegel**
Monitoring of Partial Discharge Activity in Power Transformers by the UHF-Technique
21. **T. Al Abri, I. Al Balushi, M. Al Zedjali**
Bushing Failure- Investigation process & findings
22. **T. Al Abri, I. Al Balushi, M. Al Zedjali**
Case Study on Dissipation Factor Test (Tan Delta)- Challenges & Consequences
23. **A. Mikulecky, N. Jaman, M. Glavinić**
Bushing End Screen Failure – Case Study

24. **H. P. Amorim Jr., A. T. D. Carvalho, T. B. Rodrigues, J. B. S. Borges, C. F. F. de C. Cunha**
On-Site Measurements of Partial Discharges and Dissipation Factor Through Tap of the Bushings in Power Transformers Brazilian Experience
25. **M. Al Riyami, M. Lal, M. Al Mazroey**
Power Transformers Provision Sheds and Learning Experience

Numerical Modelling

1. (Invited Paper) **J.B. Dastous, E. Taschler, S. Belanger**
Tank Rupture Resistance: static vs dynamic simulation
2. **R. Wittmaack**
Simulation of cold start of a natural ester test transformer
3. **M. Pirnat, G. Čepon, P. Tarman, M. Boltežar**
Numerical modeling of transformer noise at rated current
4. **S. Yürekten, Y. Sert, M. Trnan, E. Ceylan**
The Parameters of Generated Sound Level of Transformer Cores
5. **S.Yurekten, F.Erenler, E.Öztürk**
Pressboard Barriers Versus Full Wrapped Crepe Paper in Exit Insulation System for HV Power Transformers
6. **B. Gustavsen, A. Portillo, R. Ronchi, A. Mjelve**
Measurements for validation of manufacturer's white-box transformer models
7. **D. Gašić, M. Marković, M. Biloš**
Reducing of overvoltage caused by lightning impulses on tap windings
8. **N. Meško, B. Čučić, D. Žarko**
Short-circuit stress calculation in oval windings
9. **B. Jurisic, P. Poujade, A. Xemard, I. Uglesic, F. Paladian**
Application of a wide band transformer model based on limited information about transformer geometry
10. **B. Bošnjak, G. Leber, H. Landes**
Coupled 3D Transient Magneto-Mechanical FEM Simulation of a Short Circuit Test on a 570 MVA Mock-up Transformer Unit
11. **I. Žiger, D. Krajtner, B. Bojanić, M. Čukman**
Harnessing additional losses in structural components of Open-core Power Voltage Transformers
12. **R. Sitar, I. Šulc**
Prediction of local temperature rise in power transformer tank by FEM
13. **V. Kuprešanin, A. Mikulecky, V. Podobnik**
Research of insulation design criteria – application of different methods
14. **M. Quintela, H. Campelo, F. Torriano, P. Labbé, P. Picher**
Assumptions and Parameters Influencing the Numerical Accuracy of Thermal Models for Core-Type Power Transformer Windings
15. **S. Ali Mousavi, D. Bonmann**
Analysis of asymmetric magnetization current and reactive power demand of power transformers due to GIC
16. **T. Župan, B. Trkulja, Ž. Štih**
Power transformer winding model for lightning impulse testing
17. **A. Drandić, B. Trkulja**
Transformer electric field calculation using BEM and FEM
18. **N. Gavrilov, I. Roketnec**
2D winding model - CHT calculation of temperature field
19. **J. Novosel, B. Bošnjak, F. Kelemen, K. Capuder Bikić**
Influence of the Power Transformer Tank Design on the Sound Level
20. **I. Telalović, F. Kelemen, J. Novosel**
Modeling of the dynamic response of large power transformer windings during short-circuit event
21. **K. Capuder Bikić, M. Gazdović, F. Kelemen**
Transferred Voltages due to Single Phase Earth Fault on Power Transformers

22. **J. Smajic, M. Bucher, T. Franz, B. Cranganu-Cretu, A. Shoory, J. Tepper**
Modeling of Frequency Dependent Parameters in Time Domain High Frequency Transformer Simulations