IEEE Transformers Committee Editor's Report – Spring 2002 Meeting

Between April and October 2002, a total of (73) papers in the transformer area (including both new and revised papers) were submitted to IEEE Transactions on Power Delivery. During this time (68) reviews were completed and (5) reviews are in-progress. For completed reviews, the recommendations were: Accept without changes (33), Accept with mandatory changes (25), and Reject (10). A complete summary of these papers is listed below.

All members of the IEEE Transformer Committee are invited to review technical papers. To review IEEE Transaction Papers on transformers, you can sign up at: http://tpwrd-ieee.manuscriptcentral.com/

INSTRUCTIONS FOR SIGNING UP TO REVIEW IEEE TRANSACTIONS PAPERS

1. Before you create a new account, please check for an existing account by clicking on: "Check for Existing Account"
2. Assuming that you do not get an existing account notification email, click on "Create New Account" and enter in your information.
3. Please specify any "Specialty / Area of Expertise" according to the 5 numerical codes below:

    13a: Power and Instrument Transformers
    13b: Insulating fluids category
    13c: Dielectric Testing
    13d: Audible Noise and Vibration
    13e: Transformer Modeling Techniques

4. Please specify any "Key Words" such as: distribution transformers, core losses, oil DGA, or thermal, for example.
5. Submit your information.
6. Click on "Request Reviewer Status" to be enabled as a reviewer.

Finally, I would like to thank all of the reviewers who volunteered for this effort and donated many hours of their time.

Mark Christini
Editor, IEEE Transactions on Power Delivery

Accept without changes

TR12 0151999RA1.R1	Transformer Phase Coordinate Models Extended for Grounding System Analysis	Svenda	Rev. No
2000TR093.R1	Accurate Modeling of Core-type Distribution Transformers for Electromagnetic Transient Studies	Noda	New No
2000TR527.R3	Dynamic Modelling of Transformer Core From Experimental Hysteresis Data	Akcay	Rev, No
2000TR609.R1	Measurement of Lambda-I Characteristics of Asymmetric Three-Phase Transformers and Their Applications	Fuchs	Rev. No
2001TR178.R1	Estimating Overpressures in Pole-Type Distribution Transformers Part I: Tank Withstand Evaluation	Hamel	New No
2001TR182.R1	Estimating Overpressures in Pole-Type Distribution Transformers Part II: Prediction	Dastous	New No
2001TR244RA1.R1	Condition Assessment of Power Transformer On-Load Tap-Changers Using Wavelet Analysis and Self-Organizing Map: Field Evaluation	Birtwhistle	New No
2001TR253.R2	Design of A High Power Brushless Linear Variable Transformer	Faiz	Rev. Yes
2001TR274.R1	A Harmonic Model For the Nonlinearities of Single-Phase Transformer With Describing Functions	Huang	Rev. Yes
2001TR282.R2	Experience With Return Voltage Measurements For Assessing Insulation Conditions in Service Aged Transformers	Saha	Rev. No
2001TR394.R2	Reducing Losses in Distribution Transformers	Olivares	Rev. Yes
2001TR419.R2	A Newly Modified Forced Oil Cooling System and Its Impact On In-Service Transformer Oil Characteristics	Wahab	Rev. No
2001TR452.R2	Study of Abnormal Electrical Phenomena Effects On GSU Transformers	Y. Liu	Rev. No
2001TR454.R1	New Solid-State On-Load Tap-Changers Topology For Transformers	Faiz	New No
2001TR466.R1	Real-Time Dynamic Loading and thermal Diagnostic of Power Transformers	Lachman	Rev. No
2001TR495.R1	Fast Ferroresonance Suppression of Coupling Capacitor Voltage Transformers	Graovac	New No

2001TR580.R2	A Novel Extension Method for Transformer Fault Diagnosis	M. H. Wang	New, No
2001TR632.R1	Evolving Neural Nets For Fault Diagnosis of Power Transformers	Y-C Huang	New, No
TPWRD-00037-2002.R1	Data Mining Approach for Analysis of Power Transformer Dissolved Gas Records Using the Self-Organising Map	Thang	New, No
TPWRD-00039-2002.R1	A Study on Transformer Loading in Manitoba -- Part I: Peak-load Ambient Temperature	X. Li	New, No
TPWRD-00049-2002.R2	PSpice Computer Model of a Non-linear Three-phase Three-legged Transformer	Pedra	Rev. No
TPWRD-00058-2002.R1	A New Data Mining Approach for Dissolved Gas Analysis of Oil-Insulated Power Apparatus	Y-C Huang	New, No
TPWRD-00066-2002.R2	Coolant Flow Distribution and Pressure Loss in ONAN Transformer Windings - Part 1: Theory and Model Development	J. Zhang	Rev. Yes
TPWRD-00067-2002.R2	Coolant Flow Distribution and Pressure Loss in ONAN Transformer Windings - Part 2: Optimization of Design Parameters	J. Zhang	Rev. Yes
TPWRD-00106-2002.R1	Proposed Standards for Frequency Conversion Factors of Transformer Performance Parameters	teNyenhuis	New, Yes
TPWRD-00109-2002.R2	Computation of Very Fast Transient Overvoltages in Transformer Windings	Popov	Rev. No
TPWRD-00140-2002	A wide-band lumped circuit model of eddy current losses in a coil with a coaxial insulation system and a stranded conductor	Holmberg	New, No
TPWRD-00145-2002.R1	Temperature Responses to Step Changes in the Load Current of Power Transformers	H. Nordman	New, No
TPWRD-00152-2002.R1	Harmonic Frequency Leakage Fluxes in 3-Phase, 3-Winding Converter Transformers	Forrest	New, No
TPWRD-00186-2002.R2	Prediction of Hottest Spot Temperature (HST) in Power and Station Transformers	Pradhan	Rev. No
TPWRD-00196-2002 .R1	A new Method for the calculation of the Hot-spot Temperature in power Transformers with ONAN Cooling	Radakovic	Rev. No
TPWRD-00212-2002.R1	A simple method for calculating core temperature rise in power transformers is complete.	Ryder	New, Yes
TPWRD-00223-2002.R2	REVIEW OF TIME-DOMAIN POLARISATION MEASUREMENTS FOR ASSESSING INSULATION CONDITION IN AGED TRANSFORMERS	Saha	Rev. No

Revise and Resubmit

TR9 028 1999	Characterizing Internal Faults in Distribution Transformers Using Computer Simulation And Field Experiments	K. Butler	Rev, No
2000TR527.R1	Dynamic Modeling of Transformer Core From Experimental Hysteresis Data	Akcay	Rev, No
2000TR527.R2	Dynamic Modeling of Transformer Core From Experimental Hysteresis Data	Akcay	Rev, No
2001TR253.R1	Design of A High Power Brushless Linear Variable Transformer	Faiz	Rev. No
2001TR282.R1	Experience With Return Voltage Measurements For Assessing Insulation Conditions in Service Aged Transformers	Saha	Rev. No
2001TR394.R1	Reducing Losses in Distribution Transformers	Olivares	Rev. No
2001TR419.R1	A Newly Modified Forced Oil Cooling System and Its Impact On In-Service Transformer Oil Characteristics	Wahab	Rev. No
2001TR452	Study of Abnormal Electrical Phenomena Effects On GSU Transformers (Part 1 of 2: Effects of Switching Transients)	Y. Liu	Rev. No
2001TR452.R1	Study of Abnormal Electrical Phenomena Effects On GSU Transformers (Part 1 of 2: Effects of Switching Transients)	Y. Liu	Rev, No
2001TR453	Study of Abnormal Electrical Phenomena Effects On GSU Transformers (Part 2 of 2: Effects of SFC Operation & Lightning)	Y. Liu	Rev. No
2001TR580.R1	A Novel Extension Method for Transformer Fault Diagnosis	M. H. Wang	New, No
TPWRD-00010-2002.R1	Transformer Design Optimization with Consideration of Restrained Inrush Current and Low Leakage Inductance	Cheng	Rev. No

TPWRD-00031-2002	Experimental Development of Superconducting Fault Current Limiting Transformer (SFCLT) for Electric Power System	Hiroaki	Rev. No
TPWRD-00037-2002	Data Mining Approach for Analysis of Power Transformer Dissolved Gas Records Using the Self-Organising Map	Thang	Rev. No
TPWRD-00049-2002	PSpice Computer Model of a Non-linear Three-phase Three-legged Transformer	Pedra	Rev. No
TPWRD-00049-2002.R1	PSpice Computer Model of a Non-linear Three-phase Three-legged Transformer	Pedra	Rev. No
TPWRD-00057-2002	Seismic Response of Transformer-Bushing Systems	Ersoy	Rev. No
TPWRD-00066-2002.R1	Coolant Flow Distribution and Pressure Loss in ONAN Transformer Windings - Part 1: Theory and Model Development	J. Zhang	Rev. Yes
TPWRD-00067-2002.R1	Coolant Flow Distribution and Pressure Loss in ONAN Transformer Windings - Part 2: Optimization of Design Parameters	J. Zhang	Rev. Yes
TPWRD-00160-2002	A Simplified Transformer Thermal Model Based On Thermal-Electric Analogy	Tang	Rev. No
TPWRD-00186-2002.R1	Prediction of Hottest Spot Temperature (HST) in Power and Station Transformers	Pradhan	Rev. No
TPWRD-00196-2002	A new Method for the calculation of the Hot-spot Temperature in power Transformers with ONAN Cooling	Radakovic	Rev. No
TPWRD-00212-2002	A simple method for calculating core temperature rise in power transformers is complete.	Ryder	New, Yes
TPWRD-00223-2002	Review of Time-domain Polarization Measurements for Assessing Insulation Condition in Aged Transformers	Saha	Rev. No
TPWRD-00223-2002.R1	Review of Time-domain Polarization Measurements for Assessing Insulation Condition in Aged Transformers	Saha	Rev. No

Reject

2001TR453.R1	Study of Abnormal Electrical Phenomena Effects On GSU Transformers (Part 2 of 2: Effects of SFC Operation and Lightning)	Y. Liu	Rev, No
2001TR649	De-rating of Distribution Transformers For Non-Sinusoidal Load Currents Using Finite Element Method	Faiz	Rev, No
TPWRD-00010-2002.R2	Transformer Design Optimization with Consideration of Restrained Inrush Current and Low Leakage Inductance	Cheng	Rev. No
TPWRD-00040-2002.R1	A Study on Transformer Loading in Manitoba -- Part II: Loading Capability	X. Li	Rev, No
TPWRD-00044-2002.R1	Research on a New and Efficient Spherical Adsorbent for On-Site Regeneration of Transformer Oil	Peng	Rev, No
TPWRD-00117-2002	Power Flow Analysis in Transformers by Electromagnetic Fields	Edwards	Rev, No
TPWRD-00191-2002	A Novel Extension Neural Network for Power Transformer Fault Diagnosis	Wang	Rev, No
TPWRD-00233-2002	A Grey-Extension Method for Power Transformer Fault Forecasting	Wang	Rev, No
TPWRD-00258-2002	The Needs for Derating of the Distribution Transformers in Macedonian Power System	Shikoski	Rev, No
TPWRD-00295-2002	Wavelet Transform based Impulse Fault Pattern Recognition in Distribution Transformers	Purkait	Rev, No

Still In Progress

TPWRD-00213-2002	Procedures for detecting Winding Displacements in Power Transformers by the Transfer Function Method	Christian	
TPWRD-00246-2002	Vibro-acoustic techniques to diagnose power transformers	Bartoletti	
TPWRD-00354-2002	An Improved Low Frequency Transformer Model for use in GIC Studies	Chandrasenai	
TPWRD-00359-2002	Wide Band Modeling of Power Transformers	Gustavsen	
TPWRD-00390-2002	Numerical Determination of Losses in the Tank Walls of Pad-Mounted Transformers: A Two-Dimensional	Olivares	