

Editor's Report – Fall 2004 Las Vegas Meeting

Between January 1, 2004 and October 21, 2004, a total of 53 papers in the transformer area were submitted to IEEE Transactions on Power Delivery for possible publication. During this time 37 reviews were completed and 16 reviews are still in-progress. For completed reviews, the recommendations were: Accept without changes – 6; Revise and Resubmit – 24; and Reject - 7. A complete summary of these papers is listed below.

For the submitted papers, 81% were accepted while 19% were rejected.

I would like to thank all of the reviewers who volunteered for this effort and donated their time, and would like to encourage everyone associated with IEEE Transformers Committee activities to consider becoming a Reviewer. There seems to be many more papers submitted this year, and I sometimes may need to call on you. Please be kind and lend your expertise.

General categories of most popular topics covered in the recent papers:

- 6 papers related to Distribution, Dry-Type, Instrument Transformers
- 6 papers related to Life/Condition Assessment including oil testing, DGA, Furan Analysis
- 7 papers related to FRA Testing and Modeling
- 8 papers related to Loading Analysis, Temperature Prediction, Thermal Modeling
- 11 papers related to FEA, transients, faults, EMTP

Respectfully Submitted,

Stephen Antosz

Editor, IEEE Transactions on Power Delivery

	Number	Title	Key Words	Author	Decision
1	TPWRD-00645-2003	Dual-tap Chopping Stabilizer with Mixed Semi-natural Switching. Analysis and Synthesis	tap changer	Dr. Juan Campo	Revise & Resubmit
2	TPWRD-00658-2003	Advanced Design Methodology for Single and Dual Voltage Power Transformers Based on a Particular Finite Element Model	FEA, finite element	Prof. Antonios Kladas	Revise & Resubmit
3	TPWRD-00672-2003	Estimation of Capacitive Voltage Transformer Parameters from the Secondary Input Impedance Frequency Response	FRA, voltage transformer	Mr. Johannes Strauss	Revise & Resubmit
4	TPWRD-00015-2004	Hybrid Transformer Model for Transient Simulation	model, transient, EMTP	Dr. Bruce Mork	Revise & Resubmit
5	TPWRD-00034-2004	A Semiconductor On-load Tap Changer for Power Transformer	tap changer	Dr. Nasrullah Khan	Reject
6	TPWRD-00071-2004	transient recovery voltage of power transformers - a model-based determination procedure	FRA, transient, TRV	Mr. Wolfgang Hribernik	Revise & Resubmit
7	TPWRD-00112-2004	Some Limitations of a Linear Transformer Dynamic Thermal Model	thermal model, temperature	Mr. Xiaolin Mao	Reject
8	TPWRD-00169-2004	Calculation of Stress Dependent Life Cycle Costs of a substation component -Demonstrated for Controlled Energisation of Unloaded Power Transformers	economics,	Dr. Diego Politano	Revise & Resubmit
9	TPWRD-00171-2004	Dynamic Thermal Modelling of Distribution Transformers.	thermal, modelling, distribution transformer, temperature	Mr. Dejan Susa	Revise & Resubmit
10	TPWRD-00175-2004	Improved Detection of Power Transformer Winding Movement by Extending the FRA High Frequency Range	FRA,	Dr. May Wang	Revise & Resubmit

11	TPWRD-00182-2004	Ferroresonant Oscillations in a Transformer Terminated Line Due to an Energized Parallel Line on the Same Right-of-Way	ferroresonant	Mr. Kassim Al-Anbarri	Reject
12	TPWRD-00187-2004	Measurement of Three-Phase Transformer Derating and Reactive Power Demand under Nonlinear Loading Conditions	losses, harmonics	Prof. Ewald Fuchs	Revise & Resubmit
13	TPWRD-00188-2004	Real-Time Monitoring of Iron-Core and Copper Losses of Transformers under (Non)Sinusoidal Operation.	core loss, copper loss, harmonics, non-sinusoidal	Prof. Ewald Fuchs	Revise & Resubmit
14	TPWRD-00210-2004	Application of Extension Theory to PD Pattern Recognition in High Voltage Current Transformers	partial discharge, instrument transformers	Dr. Mang-Hui Wang	Revise & Resubmit
15	TPWRD-00215-2004	A Genetic-Algorithm-based Neural Network (GANN) Model for Prediction of Temperature in Power Transformers	neural network, thermal, loading	Mr. Manoj Pradhan	Revise & Resubmit
16	TPWRD-00228-2004	Analytical approach to internal fault simulation in power transformers based on fault-related incremental currents	fault, EMTP	Dr. Guzmán Díaz	Revise & Resubmit
17	TPWRD-00658-2003; Rev 1	Advanced Design Methodology for Single and Dual Voltage Power Transformers Based on a Particular Finite Element Model	FEA, finite element	Prof. Antonios Kladas	Reject
18	TPWRD-00672-2003; Rev 1	Estimation of Capacitive Voltage Transformer Parameters from the Secondary Input Impedance Frequency Response	FRA, voltage transformer	Mr. Johannes Strauss	Deferred
19	TPWRD-00215-2004; Rev 1	A Genetic-Algorithm-based Neural Network (GANN) Model for Prediction of Temperature in Power Transformers	neural network, thermal, loading	Mr. Manoj Pradhan	Reject
20	TPWRD-00228-2004; Rev 1	Analytical approach to internal fault simulation in power transformers based on fault-related incremental currents	fault, EMTP	Dr. Guzmán Díaz	Revise & Resubmit
21	TPWRD-00234-2004	Magnetizing Inrush Model of Transformers Based on Structure Parameters	magnetizing, inrush current	Prof. Jiann-Fun Chen	Revise & Resubmit
22	TPWRD-00265-2004	A Pattern-Based Fault Classification Algorithm for Power Transformers	transfer function, FRA	Dr. Seung Jeong	Revise & Resubmit
23	TPWRD-00275-2004	Numerical Calculations of Three-Phase Transformer's Transients	inrush current, transient analysis, ferroresonance	Mr. Amir Tokic	Revise & Resubmit
24	TPWRD-00290-2004	New Diagnosis Approach to Epoxy Resin Transformer Partial Discharge	ultrasonic, dry-type, partial discharge	Mr. L. J. Chen	Revise & Resubmit
25	TPWRD-00293-2004	On the Estimation of Elapsed Life of Oil-Immersed Power Transformers	life, insulating fluids, furans, DP, oil testing, ageing	Mr. Manoj Pradhan	Revise & Resubmit
26	TPWRD-00296-2004	Improving the IEC Table for Transformer Failure Diagnosis with Knowledge Extraction from Neural Networks	neural network, fuzzy logic, mapping, fault, failure, dga	Prof. Vladimiro Miranda	Revise & Resubmit
27	TPWRD-00307-2004	Analysis of Transformers on the Concept of Elementary Winding	windings, impedance, circuit	Mr. Mingxing Tian	Reject
28	TPWRD-00325-2005	Performances Of Distribution Transformers Installed in Metallic Enclosures - An Australian Experience	distribution transformer,	Mr. Selver Corhodzic	Revise & Resubmit

29	TPWRD-00210-2004; Rev 1	Application of Extension Theory to PD Pattern Recognition in High Voltage Current Transformers	partial discharge, instrument transformers	Dr. Mang-Hui Wang	Accept
30	TPWRD-00672-2003; Rev 1	Estimation of Capacitive Voltage Transformer Parameters from the Secondary Input Impedance Frequency Response	FRA, voltage transformer	Mr. Johannes Strauss	Reject
31	TPWRD-00171-2004; Rev 1	Dynamic Thermal Modelling of Distribution Transformers.	thermal, modelling, distribution transformer, temperature	Mr. Dejan Susa	Revise & Resubmit
32	TPWRD-00175-2004; Rev 1	Improved Detection of Power Transformer Winding Movement by Extending the FRA High Frequency Range	FRA,	Dr. May Wang	Revise & Resubmit
33	TPWRD-00228-2004; Rev 2	Analytical approach to internal fault simulation in power transformers based on fault-related incremental currents	fault, EMTP	Dr. Guzmán Díaz	Accept
34	TPWRD-00645-2003; Rev 1	Dual-tap Chopping Stabilizer with Mixed Semi-natural Switching. Analysis and Synthesis	tap changer	Dr. Juan Campo	Accept
35	TPWRD-00365-2004	Time-Frequency Representation of Resistance for Modeling of Transformer Winding under Impulse Test	model, transient, EMTP	PRITHWIRAJ PURKAIT	
36	TPWRD-00370-2004	Transformer Insulation Life Assessment	life, insulating fluids, furans, DP, oil testing, ageing	Kshira T Muthanna	
37	TPWRD-00390-2004	An Hybrid Tool for Detection of Incipient Faults in Transformers Based on the Dissolved Gas Analysis of Insulating Oil	dga, neural networks, fuzzy	Jacqueline G. Rolim	
38	TPWRD-00411-2004	Novel Analytical Solution to Fundamental Ferroresonance; Part I: Power Frequency Excitation Characteristic	emtp, ferroresonance	Wei Shi	
39	TPWRD-00412-2004	Novel Analytical Solution to Fundamental Ferroresonance; Part II: Criterion and Elimination	emtp, ferroresonance	Wei Shi	
40	TPWRD-00290-2004; Rev 1	New Diagnosis Approach to Epoxy Resin Transformer Partial Discharge	ultrasonic, dry-type, partial discharge	Mr. L. J. Chen	
41	TPWRD-00296-2004; Rev 1	Improving the IEC Table for Transformer Failure Diagnosis with Knowledge Extraction from Neural Networks	neural network, fuzzy logic, mapping, fault, failure, dga	Prof. Vladimiro Miranda	
42	TPWRD-00234-2004; Rev 1	Magnetizing Inrush Model of Transformers Based on Structure Parameters	magnetizing, inrush current	Prof. Jiann-Fun Chen	Accept
43	TPWRD-00171-2004; Rev 2	Dynamic Thermal Modelling of Distribution Transformers.	thermal, modelling, distribution transformer, temperature	Mr. Dejan Susa	Accept
44	TPWRD-00432-2004	Simulation, Measurements and Analysis of Voltage Transients in Windmills	dry-type, Wind, transient	Rune E Jensen	
45	TPWRD-00467-2004	Characterization of winding faults using a multi-condition based approach	faults	Guzmán Díaz	

46	TPWRD-00473-2004	Synthesis of Fast On-load Multi-tap-changing Clamped-hard-switching AC Stabilizers		Juan C. Campo	
47	TPWRD-00474-2004	Analysis of Fast On-load Multi-tap-changing Clamped-hard-switching AC Stabilizers		Juan C. Campo	
48	TPWRD-00476-2004	Monitoring of the power transformer aging through the dynamic loading corrected by furfural analysis	life, insulating fluids, furans, DP, oil testing, ageing	Teresa C B N Assuncao	
49	PESL-00076-2004	Partial Discharge Investigation of a Power Transformer using Wireless Wideband Radio Frequency Measurements.	PD, test, wideband	P J Moore	
50	TPWRD-00482-2004	Transformer tank vibration modelling as a method of detecting winding deformations. Part 1: Theoretical foundation	frequency, vibration	Prof. Belén García	
51	TPWRD-00483-2004	Transformer tank vibration modelling as a method of detecting winding deformations. Part 2: Experimental verification	frequency, vibration	Prof. Belén García	
52	TPWRD-00494-2004	Comprehensive Diagnostic Methodology for Power Transformers Insulation Based on Polarisation Methods and Some Chemical Tests	insulation	Dr. Tapan Saha	
53	TPWRD-00175-2004; Rev 2	Improved Detection of Power Transformer Winding Movement by Extending the FRA High Frequency Range	FRA,	Dr. May Wang	Accept

All members of the IEEE Transformer Committee are invited to review technical papers. To review IEEE Transaction Papers on transformers, please sign up at: <http://tpwr-d-ieee.manuscriptcentral.com/>

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- 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
- Please specify any "Key Words" such as: distribution transformers, core losses, oil DGA, or thermal, for example.
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