

## Editor's Report – Fall 2005 Memphis, TN Meeting

Between March 11, 2005 and October 20, 2005 a total of 68 papers in the transformer area were submitted to IEEE Transactions on Power Delivery for possible publication. During this time 50 reviews were completed and 18 reviews are still in-progress. For completed reviews, the recommendations were: Accept without changes – 16; Revise and Resubmit – 25; and Reject - 9. A complete summary of these papers is listed herein.

Many of the papers in this rotation have been revised and resubmitted at least once.

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.

I would like to encourage those Reviewers that already have an account on IEEE Manuscript Central to keep their profile information updated and complete the areas for key words and areas of interest.

Respectfully Submitted,  
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All members of the IEEE Transformer Committee are invited to review technical papers. Please sign up at:  
<http://tpwr-d-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.

	Number	Title	Key Words	Author	Decision	Date
1	PESL-00019-2005	experimental determination of saturation and hysteresis characteristics with the WVAV method	core, hysteresis	Prof. Aurelio Medina	Reject	04/01/05
2	TPWRD-00494-2004; Rev 1	Comprehensive Diagnostic Methodology for Power Transformers Insulation Based on Polarisation Methods and Some Chemical Tests	insulation	Dr. Tapan Saha	Revise & Resubmit	05/10/05
3	TPWRD-00606-2004; Rev 1	PD PULSE BURST CHARACTERISTICS OF TRANSFORMER OILS	oil, PD,	Prof. Massimo Pompili	Accept	04/14/05
4	TPWRD-00365-2004; Rev 1	Time-Frequency Representation of Resistance for Modeling of Transformer Winding under Impulse Test	model, transient, EMTP	PRITHWIRAJ PURKAIT	Revise & Resubmit	06/28/05
5	TPWRD-00411-2004; Rev 2	Novel Analytical Solution to Fundamental Ferroresonance; <sup>a</sup> Part I: Power Frequency Excitation Characteristic	empt, ferroresonance	Wei Shi	Accept	06/13/05
6	TPWRD-00412-2004; Rev 2	Novel Analytical Solution to Fundamental Ferroresonance <sup>c</sup> Part II: Criterion and Elimination	empt, ferroresonance	Wei Shi	Accept	06/13/05
7	TPWRD-00390-2004; rev 1	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	Accept	09/21/05
8	TPWRD-00100-2005; Rev 1	Analysis of Partial Discharge Signal Using the Hilbert-Huang Transform	partial discharge, instrument transformers	Dr. xiaodong wang	Revise & Resubmit	06/01/05
9	TPWRD-00050-2005; Rev 1	Wavelet Aided SVM Tool for Impulse Fault Identification in Transformers	impulse, ANN, wavelet	Dr. PRITHWIRAJ PURKAIT	Accept	05/10/05
10	TPWRD-00179-2005	Insulation Status Assessment of Cast-Resin Current Transformers Based on Digital Partial Discharge Measurement	partial discharge, cast coil, current transformers	Yu-Hsun Lin	Reject	09/02/05
11	TPWRD-00189-2005	Internal Winding Failure due to Resonance Overvoltage in Distribution Transformer caused by Winter Lightning	resonance, overvoltage, EMTP, lightning, distribution xfmr	Hideki Motoyama	Revise & Resubmit	08/16/05
12	TPWRD-00191-2005	ABNORMAL FERRORESONANCE SOLUTIONS IN POWER SYSTEMS	ferroresonance, cores	Saravanaselvan Rajan	Reject	09/02/05
13	TPWRD-00199-2005	Differences between Conventional and Electronic Tap-Changers and Modifications of Controller	tap changer	Jawad Faiz	Revise & Resubmit	07/08/05
14	TPWRD-00244-2005	Overview of Partial Discharge Detection and Optical Partial Discharge Detection inside a Transformer	partial discharge, sensors, fiber optics	xiaodong wang	Revise & Resubmit	07/11/05
15	TPWRD-00253-2005	PD Multi-Targets Localization in Power Transformers Based On Ultrasonic Sensors Arrays	partial discharge, ultrasonic	Luo Richeng		
16	TPWRD-00275-2005	Dynamic Thermal Modelling of Power Transformers-Further Development Part: I	hot-spot, thermal, top-oil temperature	Dejan Susa	Revise & Resubmit	07/16/05
17	TPWRD-00276-2005	Dynamic Thermal Modelling of Power Transformers-Further Development Part: II	hot-spot, thermal, top-oil temperature	Dejan Susa	Revise & Resubmit	07/16/05
18	TPWRD-00328-2005	Applying Partial Discharge Measurements to Study the Insulation Life Span Locus for Cast Resin Current Transformers	partial discharge, cast coil, current transformers	Yu-Hsun Lin	Reject	09/02/05
19	PESL-00032-2005	About the Average Model of the RC Loaded Single phased Transformer in Periodical a.c. Switching Mode		Constantin Strimbu	Reject	08/08/05
20	TPWRD-00187-2004; Rev 1	Measurement of Three-Phase Transformer Derating and Reactive Power Demand under Nonlinear Loading Conditions	losses, harmonics	Prof. Ewald Fuchs	Accept	07/11/05
21	TPWRD-00188-2004; Rev 1	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	07/05/05
22	TPWRD-00347-2005	Analysis of Some Measurement Errors in Bushing Power Factor Tests in the Field	bushings, pf	Dr. Shibao Zhang	Revise & Resubmit	09/06/05
23	TPWRD-00348-2005	Recurrent Neurofuzzy Network in Thermal Modeling of Power Transformers	thermal, modelling, fuzzy network, temperature, ANN	Prof. Michel Hell	Revise & Resubmit	08/16/05
24	TPWRD-00093-2005; Rev 1	Multi-Terminal Transformer Model Based on Two Winding Leakage Inductances	Multi-winding xfmr model, leakage inductance	Mr. Robert Del Vecchio	Accept	06/29/05
25	TPWRD-00353-2005	Current Transformer Model		Wellington Mota	Revise & Resubmit	08/16/05
26	TPWRD-00356-2005	A new On-Line Method based on Leakage Flux Analysis for the Early Detection and Location of Insulating Failures in Power Transformers		Prof. Manés Cabanas	Revise & Resubmit	08/16/05
27	TPWRD-00359-2005	Transformer Thermal Modeling: Improving Reliability Using Data Quality Control	thermal, modelling, temperature	Xiaolin Mao	Revise & Resubmit	08/08/05
28	TPWRD-00055-2005; Rev 1	Earthquake Simulator Testing of Base-Isolated Power Transformers	seismic, earthquake	Dr. Nobuo Murota	Revise & Resubmit	08/01/05
29	TPWRD-00565-2004; Rev 1	Field Experiences with Measurements of Dielectric Response in Frequency Domain for Power Transformer Diagnostics	dielectric/frequency response, oil-paper insulation, water content	Jörgen H. M. Blennow	Accept	07/06/05
30	TPWRD-00363-2005	Two-Dimensional Finite Element Thermal Modeling of an Oil-Immersed Transformer	thermal, FEA, temperature	Jawad Faiz	Reject	07/29/05
31	TPWRD-00100-2005; Rev 2	Analysis of Partial Discharge Signal Using the Hilbert-Huang Transform	partial discharge, instrument transformers	Dr. xiaodong wang	Accept	09/02/05
32	TPWRD-00112-2005; Rev 1	Frequency Response of Oil Impregnated Pressboard Samples for Estimating Moisture in Transformer Insulation	dielectric/frequency response, oil-paper insulation, water content	Mr. Chandima Ekanayake	Revise & Resubmit	08/08/05
33	TPWRD-00392-2005	Line-Current Compensated Single Toroidal-Core Current Transformer for Three-Phase Current Measurement	Instrument xfmr, current xfmr, relaying	C. Korasli	Revise & Resubmit	10/07/05
34	TPWRD-00394-2005	A Bayesian Network Approach To Dissolved Gas Analysis For Transformers	DGA, Bayesian network	Q. H. Wu		
35	TPWRD-00400-2005	Research on Extraction Technique of Transformer Core Fundamental Frequency Vibration Based on OLCM	core, frequency, vibration	shengchang ji	Revise & Resubmit	10/18/05
36	TPWRD-00406-2005	Analysis of Half-Turn Effect in Power Transformers Using Nonlinear-Transient FE Formulation	core, xfmr design, finite element	Shrikrishna V. Kulkarni	Revise & Resubmit	10/10/05

37	TPWRD-00407-2005	Transformer Core Nonlinearities Modeled in Harmonic Domain	core, nonlinear, power system analysis	Wojciech T Wiechowski	Reject	10/07/05
38	TPWRD-00244-2005; Rev 1	Overview of Partial Discharge Detection and Optical Partial Discharge Detection inside a Transformer	partial discharge, sensors, fiber optics	xiaodong wang	Revise & Resubmit	08/31/05
39	TPWRD-00275-2005; Rev 1	Dynamic Thermal Modelling of Power Transformers- Further Development Part: I	hot-spot, thermal, top-oil temperature	Dejan Susa	Accept	09/21/05
40	TPWRD-00276-2005; Rev 1	Dynamic Thermal Modelling of Power Transformers- Further Development Part: II	hot-spot, thermal, top-oil temperature	Dejan Susa	Accept	09/21/05
41	TPWRD-00199-2005; Rev 1	Differences between Conventional and Electronic Tap Changers and Modifications of Controller	tap changer	Jawad Faiz	Revise & Resubmit	09/01/05
42	TPWRD-00411-2005	Exploring Possibilities for Characterization of Power Transformer Insulation by Frequency Response Analysis (FRA)	FRA, insulation	K. G. N. B. Abeywickrama	Revise & Resubmit	10/18/05
43	TPWRD-00431-2005	A Study on Voltage Measurement Error during AC withstanding Voltage Tests on Transformers	AC Voltage Test, Measurement Error	Xuang Wang		
44	TPWRD-00434-2005	HIGHER ORDER BANDED CHAOTIC AND SUBHARMONIC FERRORESONANT SOLUTIONS IN POWER TRANSFORMERS	Ferroresonance, bifurcation	Saravanaselva n Rajan		
45	TPWRD-00447-2005	Application of the Wavelet and the Neural Network to Partial Discharge Measurement and Fault-type Identification for Epoxy-resin Transformers	Neural network, Cast Coil, Distribution xfms	L. J. Chen		
46	TPWRD-00458-2005	Acoustic Emission Technique for Detection and Location of Simulated Defects in Power Transformers	acoustic, pd,	Nagamani Hebbale Narasimhaiah	Reject	10/18/05
47	TPWRD-00460-2005	Geomagnetically induced currents - initiators of transformer failure?	GIC, solar, geomagnetic	Gert COETZEE	Reject	10/18/05
48	TPWRD-00474-2005	Ability to Identify the Circuit Element that has Undergone a Change in the Equivalent Circuit Representation of a Transformer Winding	equivalent circuit, lumped parameter, LVI	L. Satish	Revise & Resubmit	10/10/05
49	TPWRD-00480-2005	Improved Electromagnetic Transient Investigation on Dynamic Non-linear Power Transformer System	transients, emtp	Zhe Chen		
50	TPWRD-00492-2005	Analysis of Ferroresonance Modes in Power Transformers Using Preisach-Type Hysteretic Magnetizing Inductance	hysteresis, ferroresonance, magnetizing	Afshin Rezaei-Zare	Revise & Resubmit	10/17/05
51	TPWRD-00503-2005	Loading Guides and ANN Analysis Utilization for Oil-Immersed Distribution Transformer Condition Monitoring	loading, ANN, condition, distribution xfmr	Jouni K. Pylvänäinen		
52	TPWRD-00515-2005	Proposition of Individual Loading Guide for Power Transformers	loading,	Shinichi Toujo		
53	TPWRD-00521-2005	A Sequential Phase Energization Method for Transformer Inrush Current Reduction -Transient Performance and Practical Considerations	inrush current, transient analysis, ferroresonance, power quality	Wilsun Xu		
54	TPWRD-00525-2005	De-noising the Measured Neutral Current for Detection and Localisation of Faults in Transformer Winding using Wavelet Technique during Impulse	faults	BHOOMIAH ANUGULA		
55	TPWRD-00112-2005; Rev 2	Frequency Response of Oil Impregnated Pressboard Samples for Estimating Moisture in Transformer Insulation	dielectric/frequency response, oil-paper insulation, water content	Mr. Chandima Ekanayake	Accept	10/04/05
56	TPWRD-00199-2005; Rev 2	Differences between Conventional and Electronic Tap Changers and Modifications of Controller	tap changer	Jawad Faiz	Accept	09/06/05
57	TPWRD-00353-2005; Rev 1	Current Transformer Model		Wellington Mota	Revise & Resubmit	10/04/05
58	TPWRD-00365-2004; Rev 2	Time-Frequency Representation of Resistance for Modeling of Transformer Winding under Impulse Test	model, transient, EMTP	PRITHWIRAJ PURKAIT		
59	TPWRD-00244-2005; Rev 2	Overview of Partial Discharge Detection and Optical Partial Discharge Detection inside a Transformer	partial discharge, sensors, fiber optics	xiaodong wang	Accept	09/12/05
60	TPWRD-00359-2005; Rev 1	Transformer Thermal Modeling: Improving Reliability Using Data Quality Control	thermal, modelling, temperature	Xiaolin Mao	Accept	09/19/05
61	TPWRD-00097-2005; Rev 1	Effects of Moisture in Oil/Paper Insulation On Power Factor Measurements	dielectric/frequency response, oil-paper insulation, water content	Dr. K Abdolali		
62	TPWRD-00055-2005; Rev 2	Earthquake Simulator Testing of Base-Isolated Power Transformers	seismic, earthquake	Dr. Nobuo Murota		
63	TPWRD-00572-2005	Magnetizing Current Harmonics, Interharmonics and Subharmonics: An Analytical Study	magnetizing, inrush current, harmonics	Prof. Alexander Emanuel		
64	TPWRD-00574-2005	Influence of VFT on Shell-type Transformer	shell-form, transients, emtp	Dr. Shigeto Fujita		
65	TPWRD-00189-2005; Rev 1	Internal Winding Failure due to Resonance Overvoltage in Distribution Transformer caused by Winter Lightning	resonance, overvoltage, EMTP, lightning, distribution xfmr	Hideki Motoyama	Accept	10/07/05
66	TPWRD-00494-2004; Rev 2	Comprehensive Diagnostic Methodology for Power Transformers Insulation Based on Polarisation Methods and Some Chemical Tests	insulation	Dr. Tapan Saha		
67	TPWRD-00474-2005; Rev 1	Ability to Identify the Circuit Element that has Undergone a Change in the Equivalent Circuit Representation of a Transformer Winding	equivalent circuit, lumped parameter, LVI	L. Satish		
68	TPWRD-00608-2005	A Novel Fuzzy Logic Technique to Identify Critical Ranking in Power Transformers	aging, insulation life, fuzzy logic, assessment	Muhammad Arshad		