

	Sr. No.		Criteria	Weight	Score
<b>GENERAL</b>	1	I	Age of the Transformer		
	2	I	Experience with Transformer Type		
	3	I, M	Noise level		
	4	I, M	Transformer Loading Condition		
	5	O	Core & Winding losses		
<b>WINDING CONDITION</b>	6	O	Winding Turns Ratio		
	7	O	Condition of Winding		
	8	O	Condition of Solid insulation		
	9	I,M	Partial Discharge (PD) Test		
<b>OIL CONDITION</b>	10	I,M	Gas in Oil		
	11	I,M	Water In Oil		
	12	I,M	Acid in Oil		
	13	I,M	Oil Power Factor		
<b>PHYSICAL CONDITION</b>	14	I,M	Condition of Tank		
	15	I,M	Condition of Cooling System		
	16	I,M	Condition of Tap Changer		
	17	I,M	Condition of Bushings		
	18				
<b>Sum</b>					
<b>Weighted Average</b>					

*I: Energized and In-service testing*

*M: On line monitoring & measurement is possible.*

*O: De-energized and isolated*

# Equipment Condition Assessment And Its Importance In

**Marcel A. Müller**



## **Equipment Condition Assessment And Its Importance In:**

### **Equipment Condition Assessment and Its Importance in Estimation and Prediction of Power System**

**Reliability**, 2008 Transmission and Distribution Electric Utilities have a vast amount of assets distributed over their system in the form of various equipment As part of an asset management program electric utilities keep focusing on the inspection and maintenance activities of these assets to improve system performance reliability and to ensure cost effective expenditures Therefore methodology that will reflect these inspection and maintenance efforts in terms of overall condition of the equipment is needed Also techniques are needed to assess the impact of inspection and maintenance activities on the overall reliability of systems performance To achieve this a methodology for the assessment of equipment condition and the estimation of the health index for transformers and circuit breakers was developed After that a technique to estimate the failure rate from the equipment health index was used Then an IEEE test case was selected to demonstrate its impact on system reliability indices with the help of a predictive reliability assessment software tool Milsoft Utility Solution As part of equipment condition assessment method for transformer and circuit breaker failure modes and maintenance practices for these equipment was reviewed Based on this review parameters were selected for condition assessment which will provide significant information about the equipment condition and will also justify the cost and efforts For each of the parameters a score and weight were defined and guidelines were developed to assign them Also ways in which online monitoring systems can contribute to equipment condition assessment were presented briefly A technique was used to convert the equipment health index into its failure rate Then an IEEE reliability test case was modeled using the Milsoft software incorporating this estimated failure rate and studied system s behavior in terms of reliability indices It was observed that developing such models will provide more realistic information about the system s actual performance and will demonstrate the way in which impact of the inspection and maintenance efforts can be accounted

*Automatic Control, Mechatronics and Industrial Engineering* Yigang He,Xue Qing,2019-03-20 Engineering technology development and implementation play an important role in making the industry more sustainable in an increasingly competitive world This book covers significant recent developments in both fundamental and applied research in the engineering field Domains of application include but are not limited to Intelligent Control Systems and Optimization Signal Processing Sensors Systems Modeling and Control Robotics and Automation Industrial and Electric Engineering Production and Management This book is an excellent reference work to get up to date with the latest research and developments in the fields of Automation Mechatronics and Industrial Engineering It aims to provide a platform for researchers and professionals in all relevant fields to gain new ideas and establish great achievements in scientific development

*Aging Power Delivery Infrastructures* Randall R. Schrieber,H. Lee Willis,Edmund Philips,2000-12-14 Illustrates state of the art planning design operational and managerial methods Demonstrates novel approaches to utilizing resources in an aging electric power delivery infrastructure maximizing system effectiveness and

maintaining competitive financial performance while reinforcing good customer service

**Learning-assisted Diagnosis and Control of Electric Distribution Network** Chaolong Zhang,Xiao Wang,Aihong Tang,Weihsang Yan,David Gao,2025-08-08 The digital transformation of modern power systems enables more robust and transparent system planning and operation This process is highly reliant on big data which is widely available through energy generation to utilization The distribution networks are exposed to high challenges due to the massive integration of renewables and electric vehicles at low voltages but opportunities do exist due to the widely available infrastructure for data collection and smart control at the distribution level For example the phase measurement unit PMU for better system observation in the transmission system has been extended to the distribution network where standard protocols are available for high precision data transmission in a sub second timescale Artificial intelligence AI technologies become the main enabler to utilize these data This provides revolutionary solutions covering fault diagnosis control and almost all aspects of modern electric power systems The values of AI in distribution networks are widely recognized especially for the increased complexity of distribution systems where active management and autonomous operation are urgently needed The typical mechanism based modeling and model based control lack adaptability under an evolving environment e g network topology changes that are more frequent at the distribution level However the existing AI technologies as well as the associated machine learning algorithms cannot be directly transplanted into the area of power systems To fulfill the strict technical requirements in power systems for security generalization capability interpretability out of sample performance robustness and reliability are the main issues to be addressed before their massive deployment Therefore this Research Topic aims to provide a contribution in line with this area of research i e innovative approaches and schemes for learning assisted diagnosis and control for the medium to low voltage distribution networks Original work focusing on the applications of state of art AI technologies in the power and energy related fields are invited Both high quality Original Research and Review Articles are welcome about the latest progress and potential research applications of the relevant areas with interests in modeling control monitoring and diagnosis of the distribution network using AI related techniques

**Aging Power Delivery Infrastructures** H. Lee Willis,Randall R. Schrieber,2017-12-19 Good aging infrastructure management consists of optimizing the choice of equipment and its refurbishment while also making compatible changes in all those operating and ownership policies the whole combination aimed at optimizing the business results the power system owner desires Both a reference and tutorial guide this second edition of Aging Power Delivery Infrastructures provides updated coverage of aging power delivery systems the problems they cause and the technical and managerial approaches that power systems owners can take to manage them See What's New in the Second Edition All chapters have been updated or are completely new Comprehensive discussions of all issues related to equipment aging Business impact analysis and models and engineering business studies of actual utility cases Strategy and policy issues and how to frame and customize them for specific situations This book looks at

the basics of equipment aging and its system and business impacts on utilities It covers various maintenance service and retrofit methods available to mitigate age related deterioration of equipment It also presents numerous configuration and automation upgrades at the system level that can deal with higher portions of aging equipment in the system and still provide good service at a reasonable cost

Report on Economic and Financial Conditions in Germany Great Britain. Department of Overseas Trade,1925 Reports for 1924 25 include A report on the industries of the occupied territories varies slightly

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*Administrative Report of the Directors of Departments Under the Civil Administrative Code Together with the Adjutant General's Report ...* Illinois,1923 Vols for 1917 18 contain reports of the following departments Dept of Finance Dept of Agriculture Dept of Labor Dept of Mines and Minerals Dept of Public Works and Buildings Dept of Public Welfare Dept of Public Health Dept of Trade and Commerce Dept of Registration and Education Military and Naval Dept

**The Commercial and Financial Chronicle** ,1906

The Traffic World ,1930

**Traffic World and Traffic Bulletin** ,1930

*Biennial Report of the Public Utilities Commission, State of Kansas* Kansas. Public Utilities Commission,1924

**Documents of the Senate of the State of New York** New York (State). Legislature. Senate,1912

**Annual Report of the Board of Railroad Commissioners** Massachusetts. Board of Railroad Commissioners,1885

**Report on the Conditions and Prospects of British Trade in India During the Fiscal Year ...** ,1928

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