

Condition Based Assessment of Power Transformer with Modern Techniques

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Abstract : This paper provides the information on the diagnostics techniques for condition monitoring of power transformer (PT). This paper deals with the practical importance of the transformer diagnostic in the Electrical Engineering field. The life of the transformer depends upon its insulation i.e paper and oil. The major testing techniques applies on transformer oil and paper i.e dissolved gas analysis, furfural analysis, radio interface, acoustic emission, infra-red emission, frequency response analysis, power factor, polarization spectrum, magnetizing currents, turn and winding ratio. A review has been made on the modern development of this practical technology.

Keywords : temperature, condition monitoring, diagnostics methods, paper analysis techniques, oil analysis techniques

Conference Title : ICEE 2016 : International Conference on Electrical Engineering

Conference Location : Montreal, Canada

Conference Dates : May 16-17, 2016