PROTECTION OF POWER TRANSFORMER FROM VARIOUS FAULTS USING ANN

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ABSTRACT

Transformer protection is critical issue in power system as the issue lies in the accurate and rapid discrimination of magnetizing inrush current from internal fault current. Artificial neural network has been proposed and has demonstrated the capability of solving the transformer Monitoring and fault detection problem using an inexpensive, reliable, and noninvasive procedure. This paper gives algorithm where arithmetical parameters of detailed d1 level wavelet coefficients of signal are used as an input to the artificial neural network (ANN), which develops in to a original approach for online exposure method to distinguish the magnetizing inrush current and inter-turn fault, and even the location of fault i.e. whether the inter-turn fault lies in primary winding or secondary winding through the use artificial neural-nets (ANNs).

KEYWORDS: ANN, MATLAB, Power Transformer, Introduction