

**THE VALIDATION MULTISTAGE DISCRETE WAVELET
TRANSFORMATION TECHNIQUE FOR IDENTIFICATION OF
TRANSIENT DISTURBANCES**



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ABSTRACT

Transient disturbance is among the power disturbances that commonly occurred in electrical system. One of popular technique to extract this disturbance feature is the multistage Discrete Wavelet Transform (DWT) technique. This research is done in order to validate the ability of multistage DWT technique particularly Daubhechies2 (DB2), Daubhechies3 (DB3), Daubhechies4 (DB4) and Daubhechies5 (DB5) for identifying transient disturbance. The results that obtain from the DWT technique are compared with the Reliable Power Meter (RPM) database. RPM database is extensively used for Power Quality (PQ) and transient disturbances analysis. All the corresponding has been implemented through MATLAB software.

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