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

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DECEMBER 2007

ACKNOWLEDGEMENT

All praise is to Allah, Lord of Universe, the Merciful and Beneficent. Salam to Nabi Muhammad S.A.W., his companions, his friends and the people who follow his path. My everlasting thank to ALLAH for granting me patience and hope in completing this thesis.

The authors express their sincere gratitude to the Institute of Research, Development and Commercialization (IRDC) for providing the grant of this project. Special thank to Associate Professor Mohd Zaki bin Abdullah from UiTM Penang for his generosity by providing the important data. Without his help, it is almost impossible to successfully complete this research.

Finally, the authors wish thankful to all parties, those involved directly or indirectly upon completing this research.

Thank you

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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