

Diagnostic & detection des cassures des barres du rotor d'une machine asynchrone a cage par l'analyse en ondelettes

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Abstract : In this thesis we used the wavelet technique for the diagnosis of the squirrel cage induction machines. This technique which offers a very fine analysis of the one-dimensional and two-dimensional signals through decomposition in discrete wavelets or in wavelet packet is used to extract the necessary information from the motor current of the machine. The result obtained dismounts the effectiveness of the technique in the detection of the rotor defects and even the detection of non-stationary where this characteristic is not available in the analysis by FFT.

Keywords : Induction machine faults, squirrel cage induction machine modeling, wavelets technique