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 inductionmachines. This technique which offers a very fine analysis of the one-dimensional and twodimensionalsignals through decomposition in discrete wavelets or in wavelet packet is usedto extract the necessary information from the motor current of the machine. The resultobtained dismounts the effectiveness of the technique in the detection of the rotor defects andeven the detection of no-stationary where this characteristic is not available in the analysis byFFT.

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