

Increasing the Sensitivity of the Discriminant Features in Problems Vibroacoustic Diagnostics Elements of Rotor Systems

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In order to increase the sensitivity of amplitude discriminates serving the fault features for vibroacoustical diagnosis of fatigue cracks in the elements of rotary systems a preliminary wavelet decomposition of measured acoustical signal is used. The effectiveness of the two-level processing of acoustic signal, radiated by the imitator of rotary system at stationary and non-stationary regimes of operation, for diagnosis of fatigue crack is shown.