

Detection Technique for Those Faults Perturbing Rotor Machinery Operating Stability, Illustrated by Means of an Example of the Pulsed Research Reactor IBR-2 Movable-Reflector Modulator

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ABSTRACT

To ensure safe machinery operation in atomic applications there were designed methods of vibration condition monitoring and diagnostic of rotor machinery defects, provoking the operation cycle instability. Results of nonstandard vibration condition monitoring algorithms using are presented. Early faults detection and diagnosis technique, which upset the movable-reflector modulator of the pulsed research reactor IBR-2 normal operation, is considered.