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# Examination of Wear Phenomena by Using Filtering Techniques for FDI Purposes

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Fault detection and isolation (FDI) methods applied to technical systems and especially to highly complex safety-relevant or invest intensive components, machines, and plants are becoming of increasing importance. Especially wear-related phenomena are difficulty to describe. Additionally it is also very difficult to measure related phenomena directly during the operation of components and systems. The idea detailed in this contribution deals with the development of a new methodology for online examination of wear phenomena using acoustic emission (AE) filtered and evaluated using field programmable gate array (FPGA)-based hardware.

**Ключевые слова:**

**Содержание.**

Examination of Wear Phenomena by Using Filtering Techniques for FDI Purposes