



Parameter Identification and Monitoring of Mechanical Systems Under Nonlinear Vibration

J.C. Jauregui

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Development of new sensors and digital processors has provided opportunity for identification of nonlinear systems. Vibration measurements have become standard for predicting and monitoring machinery in industry. Parameter Identification and Monitoring of Mechanical Systems under Nonlinear Vibration focusses on methods for the identification of nonlinearities in mechanical systems, giving description and examples of practical application. Chapters cover nonlinear dynamics; nonlinear vibrations; signal processing; parameter identification; application of signal processing to mechanical systems; practical experience and industrial applications; and synchronization of nonlinear systems.

- Covers the most recent advances in machinery monitoring
- Describes the basis for nonlinear dynamics
- Presents advantages of applying modern signal processing to mechanical systems

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