



# Linear and Nonlinear Rotordynamics: A Modern Treatment with Applications

*Yukio Ishida, Toshio Yamamoto*

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A wide-ranging treatment of fundamental rotordynamics in order to serve engineers with the necessary knowledge to eliminate various vibration problems.

New to this edition are three chapters on highly significant topics:

Vibration Suppression - The chapter presents various methods and is a helpful guidance for professional engineers.

Magnetic Bearings - The chapter provides fundamental knowledge and enables the reader to realize simple magnetic bearings in the laboratory.

Some Practical Rotor Systems - The chapter explains various vibration characteristics of steam turbines and wind turbines.

The contents of other chapters on Balancing, Vibrations due to Mechanical Elements, and Cracked Rotors are added to and revised extensively.

The authors provide a classification of rotating shaft systems and general coverage of key ideas common to all branches of rotordynamics. They offers a unique analysis of dynamical problems, such as nonlinear rotordynamics, self-excited vibration, nonstationary vibration, and flow-induced oscillations. Nonlinear resonances are discussed in detail, as well as methods for shaft stability and various theoretical derivations and computational methods for analyzing rotors to determine and correct vibrations.

This edition also includes case studies and problems.

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