

Rotor Dynamics (Third Edition)

By J.S. Rao

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The third revised and enlarged edition of the book presents an in-depth study of the dynamic Behaviour of rotating and reciprocating machinery. It evolved out of lectures delivered at different universities over the last two decades. The book deals with torsional and bending vibrations of rotors, stability aspects, balancing and condition monitoring. Closed form solutions are given wherever possible and parametric studies presented to give a clear understanding of the subject. Transfer matrix methods is extensively used for general class of rotors for both bending and torsional vibrations. Special attentions are given to transient analysis of the rotors which is becoming an essential part of the design of high speed machinery. Systems with fluid film bearings, cracked rotors and two spool rotors are also presented.

A first course on theory of vibration is a prerequisite to this study. Analysis used is fairly simple, but sufficiently advanced to the requisite level of predicting practical observations. As far as possible, practical examples are illustrated, so that the book is also useful to practising engineers.

A special feature of this book is diagnostics of rotating machinery using vibration signature analysis and application of expert systems to a field engineer in trouble shooting work.

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