



Rotor Dynamics

J.S. Rao

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Addresses the problems faced by rotating and reciprocating machinery dynamics in torsional vibrations-- both steady and transients; the unbalance response of rotors mounted on fluid film bearings under steady and transient operating conditions; and the instabilities in bending, torsion motions. Using a practical approach, it features current developments in such topics as dual rotor systems used in modern gas turbines; the optimum designs of hydrodynamic bearings for minimum unbalance response; transient response of Jeffcott type rotors using time marching techniques; instability analysis of cracked rotors and much more. Along with actual case studies and rotor examples, it aids the analyst in developing computer models of rotors using more accuracy and less time.

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