



Handbook of Rotordynamics

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Presented here is a comprehensive work on the general principles that apply to every type of modern rotating machinery. This handbook addresses both the theoretical and practical issues pertaining to the design, analysis, development, production, and maintenance of high-speed rotating machinery. It is the only work available that provides engineers with the information they need to anticipate, locate, and eliminate destructive vibration. This outstanding handbook contains chapters written by recognized experts in their respective fields, providing practical information on: vibration considerations in the design of rotating machinery; analytic prediction of rotordynamic response; balancing of flexible and rigid rotors; and performance verification, diagnostics, parameter identification, and vibration monitoring in rotating machinery. Covering the general principles that apply to every type of modern rotating machinery, the handbook is packed with specific examples about a wide array of equipment, including steam turbines, electrical motors, generators, aircraft gas turbines, reciprocating engines, and centrifuges. Fredric F. Ehrich, a registered professional engineer and a member of the National Academy of Engineering received his B.S., M.E., and Sc.D. degrees in Mechanical Engineering from M.I.T. He spent the majority of his career in the design and development of aircraft gas turbines at General Electric Aircraft Engines and earlier in the Aircraft Gas Turbine Division of the Westinghouse Co. Since his retirement, he has been active in research and teaching as a senior lecturer at M.I.T. and in consulting. Dr. Ehrich is the author of over 50 published technical papers on rotordynamics and related topics, and he holds nine issued patents on aircraft gas turbine apparatus.

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