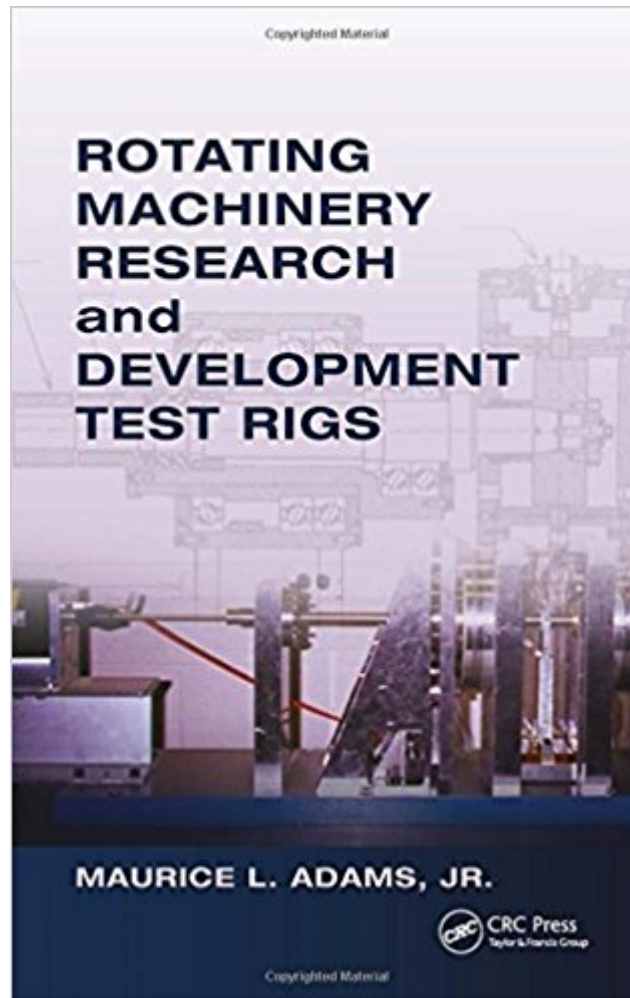




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Rotating Machinery Research And Development Test Rigs



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Rotating Machinery Research and Development Test Rigs presents the purpose and development processes for test apparatuses built for Research & Development in machinery technology and product development. Each R & D apparatus is the focus of an entire chapter, with fifteen detailed case studies included from mechanical, aerospace, chemical and biomedical engineering. Specific machinery components covered include bearings, seals, power plant pumps, rotors, turbines and compressors. Machinery condition monitoring and product development processes have been integrated. The specific purpose and results for each test rig are comprehensively presented and explained.

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Maurice L. Adams, Jr. is the founder and former president of Machinery Vibration Inc., as well as a professor of mechanical and aerospace engineering at Case Western Reserve University. The author of over 100 publications and the holder of U.S. patents, he is a member of the American Society of Mechanical Engineers. Professor Adams received the BSME degree (1963) from Lehigh University, Bethlehem, Pennsylvania; the MEngSc degree (1970) from Pennsylvania State University, University Park, Pennsylvania; and the PhD degree (1977) from the University of Pittsburgh, Pennsylvania. Dr. Adams worked on rotating machinery engineering for 14 years in industry prior to becoming a professor in 1977, including employment at Allis Chalmers,

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