

Rotordynamics Prediction in Engineering

Second Edition



**Michel Lalanne
and Guy Ferraris**

Rotordynamics Prediction In Engineering 2nd Edition

**IMechE (Institution of Mechanical
Engineers)**



Rotordynamics Prediction In Engineering 2nd Edition:

Rotordynamics Prediction in Engineering Michel Lalanne, Guy Ferraris, 1998-02-04 In this updated and revised second edition the authors present a systematic and practical approach to the analytical and numerical aspects of the prediction of rotordynamics behaviour The influence of bending is a main theme of the book although the effects of torsion are also considered The use of finite element techniques and the characteristics of rotor elements are introduced The book goes on to consider simple models showing basic phenomena which are then linked to industrial applications such as turbocompressors high pressure centrifugal compressors and steam and air turbines Key features include The inclusion of a computer program available free of charge on the Internet The development of a simple model of co axial multirotors New industrial applications and 1995 API specifications This book will be of great interest and value to students and engineers concerned with predictions in rotordynamics and mechanical engineering *Rotordynamics Prediction in Engineering* Lalanne, 1996-08

Analytical Methods in Rotor Dynamics Andrew D. Dimarogonas, Stefanos A. Paipetis, Thomas G. Chondros, 2013-02-19 The design and construction of rotating machinery operating at supercritical speeds was in the 1920s an event of revolutionary importance for the then new branch of dynamics known as rotor dynamics In the 1960s another revolution occurred In less than a decade imposed by operational and economic needs an increase in the power of turbomachinery by one order of magnitude took place Dynamic analysis of complex rotor forms became a necessity while the importance of approximate methods for dynamic analysis was stressed Finally the emergence of fracture mechanics as a new branch of applied mechanics provided analytical tools to investigate crack influence on the dynamic behavior of rotors The scope of this book is based on all these developments No topics related to the well known classical problems are included rather the book deals exclusively with modern high power turbomachinery Machinery Vibration and Rotordynamics John M. Vance, Fouad Y. Zeidan, Brian G. Murphy, 2010-05-24 An in depth analysis of machine vibration in rotating machinery Whether it s a compressor on an offshore platform a turbocharger in a truck or automobile or a turbine in a jet airplane rotating machinery is the driving force behind almost anything that produces or uses energy Counted on daily to perform any number of vital societal tasks turbomachinery uses high rotational speeds to produce amazing amounts of power efficiently The key to increasing its longevity efficiency and reliability lies in the examination of rotor vibration and bearing dynamics a field called rotordynamics A valuable textbook for beginners as well as a handy reference for experts Machinery Vibration and Rotordynamics is teeming with rich technical detail and real world examples geared toward the study of machine vibration A logical progression of information covers essential fundamentals in depth case studies and the latest analytical tools used for predicting and preventing damage in rotating machinery Machinery Vibration and Rotordynamics Combines rotordynamics with the applications of machinery vibration in a single volume Includes case studies of vibration problems in several different types of machines as well as computer simulation models used in industry Contains fundamental physical

phenomena mathematical and computational aspects practical hardware considerations troubleshooting and instrumentation and measurement techniques For students interested in entering this highly specialized field of study as well as professionals seeking to expand their knowledge base Machinery Vibration and Rotordynamics will serve as the one book they will come to rely upon consistently

Vibrations in Rotating Machinery IMechE (Institution of Mechanical Engineers),2004-10-22 This essential text contains the papers from the 8th international IMechE conference on Vibrations in Rotating Machinery held at the University of Wales Swansea in September 2004 The themes of the volume are new developments and industrial applications of current technology relevant to the vibration and noise of rotating machines and assemblies TOPICS INCLUDE Rotor balancing including active and automatic balancing Special rotating machines including micromachines Oil film bearings and dampers Active control methods for rotating machines Smart machine technology Dynamics of assembled rotors Component life predictions and life extension strategies The dynamics of geared systems Cracked rotors detection location ad prognosis Chaotic behaviour in machines Experimental methods and discoveries

Mechanical Engineering Murat Gokcek,2012-04-11 The book substantially offers the latest progresses about the important topics of the Mechanical Engineering to readers It includes twenty eight excellent studies prepared using state of art methodologies by professional researchers from different countries The sections in the book comprise of the following titles power transmission system manufacturing processes and system analysis thermo fluid systems simulations and computer applications and new approaches in mechanical engineering education and organization systems

Transdisciplinary Engineering: Crossing Boundaries Milton Borsato,Nel Wognum,Margherita Peruzzini,Josip Stjepandic,Wim J.C. Verhagen,2016-10-15 The Concurrent Engineering CE approach was developed in the 1980s based on the concept that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP CE concepts have matured and become the foundation of many new ideas methodologies initiatives approaches and tools This book contains the proceedings from the 23rd ISPE Inc International Conference on Transdisciplinary formerly Concurrent Engineering held in Curitiba Parana Brazil in October 2016 The conference entitled Transdisciplinary Engineering Crossing Boundaries provides an important forum for international scientific exchange on Concurrent Engineering and collaborative enterprises and attracts the participation of researchers industry experts and students as well as government representatives The 108 peer reviewed papers and keynote speech included here range from theoretical and conceptual to strongly pragmatic works which are organized into 17 sections including Concurrent Engineering and knowledge exchange engineering for sustainability multidisciplinary project management collaborative design and engineering optimization of engineering operations and data analytics and multidisciplinary design optimization among others The book gives an overview of the latest research advancements and applications in the field and will be of interest to researchers design practitioners and educators

Material and Manufacturing Technology Xie Yi,Li Mi,2010-08-11 Selected peer reviewed

papers from the 2010 International Conference on Material and Manufacturing Technology ICMMT 2010 held on September 17-19, 2010 in Chongqing, China. Fatigue Analysis on Moving Bodies José Carlos De Carvalho Pereira, 2025-04-15. Fatigue Analysis on Moving Bodies explores dynamic structural analysis of mechanical systems under transient conditions. It bridges theoretical foundations with practical applications, offering a comprehensive guide for engineers and students alike. Beginning with fundamental concepts in Chapters 1-3, the book progresses to advanced topics such as finite element methods and fatigue failure analysis in Chapters 4-7. It culminates in Chapter 8 with detailed analyses applicable to real-world scenarios like gear trains and vehicle suspensions. Key Features: Comprehensive coverage of mechanical systems under transient loads; Mathematical derivations using Lagrange's equations and energy formulations; Application of finite element methods in dynamic analysis; In-depth exploration of fatigue failure mechanisms and analysis techniques. *Journal of Engineering for Gas Turbines and Power*, 2008. Paper, 2001. Proceedings of the ASME Turbo Expo ..., 2004. **5th International Conference on Multibody Systems, Nonlinear Dynamics, and Control**, 2005. **Proceedings** Vibration Institute (Clarendon Hills, Ill.). Meeting, 2001. *Industrial Mathematics*, 1999. **Book Review Index**, 2003. Vols 8-10 of the 1965-1984 master cumulation constitute a title index. Proceedings of IMAC-XIX, 2001. Subject Guide to Books in Print, 1993. Forthcoming Books Rose Army, 1998. **Applied Science & Technology Index**, 2000.

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