



Torsional Vibration Analysis

Anthony Sofronas



Torsional Vibration Analysis:

Torsional Vibration of Turbo-Machinery Duncan Walker, 2003-11-21 Vibration excessive noise and other dynamics related problems that limit or prevent operation are a major manufacturing concern in airplanes auto crankshafts home appliances etc This detailed monograph provides in depth coverage of state of the art vibration analysis techniques used to prevent design and operational malfunction Torsional vibration mathematical modeling Forced response analysis Vibration measurement methods and monitoring Application case studies SI units used throughout Advances in Vibration Analysis Research Farzad Ebrahimi, 2011-04-04 Vibrations are extremely important in all areas of human activities for all sciences technologies and industrial applications Sometimes these Vibrations are useful but other times they are undesirable In any case understanding and analysis of vibrations are crucial This book reports on the state of the art research and development findings on this very broad matter through 22 original and innovative research studies exhibiting various investigation directions The present book is a result of contributions of experts from international scientific community working in different aspects of vibration analysis The text is addressed not only to researchers but also to professional engineers students and other experts in a variety of disciplines both academic and industrial seeking to gain a better understanding of what has been done in the field recently and what kind of open problems are in this area **Recent Advances in Vibrations Analysis** Natalie Baddour, 2011-09-09 This book covers recent advances in modern vibrations analysis from analytical methods to applications of vibrations analysis to condition monitoring Covered topics include stochastic finite element approaches wave theories for distributed parameter systems second order shear deformation theory and applications of phase space to the identifications of nonlinearities and transients Chapters on novel condition monitoring approaches for reducers transformers and low earth orbit satellites are included Additionally the book includes chapters on modelling and analysis of various complex mechanical systems such as eccentric building systems and the structural modelling of large container ships *Practical Machinery Vibration Analysis and Predictive Maintenance* Cornelius Scheffer, Paresh Girdhar, 2004-07-16 Machinery Vibration Analysis and Predictive Maintenance provides a detailed examination of the detection location and diagnosis of faults in rotating and reciprocating machinery using vibration analysis The basics and underlying physics of vibration signals are first examined The acquisition and processing of signals is then reviewed followed by a discussion of machinery fault diagnosis using vibration analysis Hereafter the important issue of rectifying faults that have been identified using vibration analysis is covered The book also covers the other techniques of predictive maintenance such as oil and particle analysis ultrasound and infrared thermography The latest approaches and equipment used together with the latest techniques in vibration analysis emerging from current research are also highlighted Understand the basics of vibration measurement Apply vibration analysis for different machinery faults Diagnose machinery related problems with vibration analysis techniques Torsional vibration analysis and engine component design Andre Ribeiro Ferreira, 2007

Sensitivity Analysis of Torsional Vibration Characteristics of Helicopter Rotor Blades Theodore Bratanow, Akin Ecer, 1974 *Vibration Analysis of Gas Turbine Rotors* Srinivasa Rao Dokku, 2018-09-20 Master's Thesis from the year 2016 in the subject Engineering Mechanical Engineering language English abstract The purpose of this report is to determine the lateral and torsional dynamic characteristics of the complete system under synchronous conditions of excitation and response. A damped natural response study was made in order to investigate the combined effect of oil film stiffness and damping coefficients on system damping and stability characteristics at all damped natural resonance speeds. An unbalance response analysis is also performed to study the system sensitivity. This study was performed to investigate the lateral vibration characteristics of the subject system in order to avoid vibration problems that might interfere with the smooth and reliable operation of the system. Total system studies are important in that often the coupling effects of marrying driver and driven equipment result in resonant speeds that are not calculable when investigating the response of the separate components. Oil film stiffness and damping for all bearings must be properly considered in the system calculations along with the effective stiffness and damping of pedestal supports as required. The above effects are in the following calculation to ensure the proper calculation of resonant speeds. The following study concerns itself with the lateral analysis of gas turbine load coupling and 50 Hz 15 75Kva generator. This study reports the lateral natural frequencies and mode shapes calculated from the mass and stiffness distribution of the beam elements modeled using the DYROBES software. An unbalanced response analysis is also performed to study the system sensitivity. The significance of torsional vibration in high speed rotating machinery is well established. It is desirable to keep all torsional natural frequencies away from operating speed as well as twice the electrical frequency of the system. However, this is not always feasible and therefore torsional criticals can be tolerated within these regions provided the response to excitation levels are low enough to keep the alternating shear stress within acceptable levels. The following study concerns itself with the complete torsional analysis of gas turbine rotor including load coupling gear box and 50Hz 15 75KVA generator rotor. This study reports the torsional natural frequencies, mode shapes, and Campbell diagram by using transfer matrix method. The transient response shear stresses were also calculated for fault condition.

Case Histories in Vibration Analysis and Metal Fatigue for the Practicing Engineer Anthony Sofronas, 2012-07-25 This highly accessible book provides analytical methods and guidelines for solving vibration problems in industrial plants and demonstrates their practical use through case histories from the author's personal experience in the mechanical engineering industry. It takes a simple analytical approach to the subject, placing emphasis on practical applicability over theory and covers both fixed and rotating equipment as well as pressure vessels. It is an ideal guide for readers with diverse experience ranging from undergraduate students to mechanics and professional engineers. *Sensitivity Analysis of Torsional Vibration Characteristics of Helicopter Rotor Blades. Part 1: Structural Dynamics Analysis*, 1974 A theoretical investigation of structural vibration characteristics of rotor blades was carried out. Coupled equations of motion for flapwise bending and

torsion were formulated for rotor blades with noncollinear elastic and mass axes The finite element method was applied for a detailed representation of blade structural properties Coupled structural mass and stiffness coefficients were evaluated The range of validity of a set of coupled equations of motion linearized with respect to eccentricity between elastic and mass axes was investigated The sensitivity of blade vibration characteristics to torsion were evaluated by varying blade geometric properties boundary conditions and eccentricities between mass and elastic axes Sensitivity Analysis of Torsional Vibration Characteristics of Helicopter Rotor Blades. Part 2: Aerodynamics and Sensitivity Analysis, 1974 A theoretical investigation of dynamic response characteristics of rotor blades was carried out with special emphasis on torsional degrees of freedom Coupled equations of motion for flapwise bending and torsion were formulated at varying azimuth positions for rotor blades with noncollinear aerodynamic elastic and mass axes Both structural and aerodynamic mass damping and stiffness coefficients were included The variations of a sample blade at different flight conditions were investigated from these equations The obtained numerical results were illustrated The sensitivity of overall blade vibration characteristics to torsional oscillations was also investigated from the equations of motion for the sample blade The illustrated results show the importance of torsional degrees of freedom in rotor blade analysis Various possibilities of improving the overall response by tuning blade geometric structural and aerodynamic characteristics are discussed *Torsional-vibration Analysis Via Network Theory* John Ogilvy Flower, 2016 ASME 67-VIBR-3 D. A. Klokkenga, American Society of Mechanical Engineers, 1967 *Torsional Vibration Analysis*, 1971 *Vibration of Structures and Machines* Giancarlo Genta, 1999 This book addresses important aspects of nonlinear vibration analysis presenting cases of interest to researchers and engineers Developing the subject from its foundations the book takes readers through vibrations in linear systems and then into nonlinear vibrations including a treatment of chaotic vibrations **Vibration Analysis** Nils O. Myklestad, 1944 *Torsional Vibration Analysis Techniques as a Tool for Condition Monitoring of Diesel Engines* Cees A.J. Tromp, 1990 *Free Vibration Analysis of Beams and Shafts* Daniel J. Gorman, 1975 Noise and Torsional Vibration Analysis of Hybrid Vehicles Xiaolin Tang, Yanjun Huang, Hong Wang, Yechen Qin, 2018-12-27 Thanks to the potential of reducing fuel consumption and emissions hybrid electric vehicles HEVs have been attracting more and more attention from car manufacturers and researchers Due to involving two energy sources i e engine and battery the powertrain in HEVs is a complicated electromechanical coupling system that generates noise and vibration different from that of a traditional vehicle Accordingly it is very important to explore the noise and vibration characteristics of HEVs In this book a hybrid vehicle with two motors is taken as an example consisting of a compound planetary gear set CPGS as the power split device to analyze the noise and vibration characteristics It is specifically intended for graduates and anyone with an interest in the electrification of full hybrid vehicles The book begins with the research background and significance of the HEV The second chapter presents the structural description and working principal of the target hybrid vehicle Chapter 3 highlights the noise vibration and harshness NVH tests and

corresponding analysis of the hybrid powertrain Chapter 4 provides transmission system parameters and meshing stiffness calculation Chapter 5 discusses the mathematical modeling and analyzes torsional vibration TV of HEVs Finally modeling of the hybrid powertrain with ADAMS is given in Chapter 6

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