



VIBRATION ANALYSIS CHART

IMBALANCE



Imbalance is the most common cause of vibration in rotating machinery. It occurs when the mass of the rotating part is not evenly distributed, causing it to wobble as it rotates. This results in a single peak at 1X RPM in the vibration spectrum.

MISALIGNMENT



Misalignment occurs when the shafts of two coupled machines are not perfectly aligned. This causes the shafts to bend as they rotate, resulting in a single peak at 1X RPM in the vibration spectrum.

LOOSENESS



Looseness occurs when a component is not properly secured, allowing it to move or vibrate. This results in a broad peak at 1X RPM in the vibration spectrum.

BLADE / VANE PASS



Blade/vane pass occurs when a blade or vane passes through a gap, causing a sharp impact. This results in a single peak at 1X RPM in the vibration spectrum.

BELTS

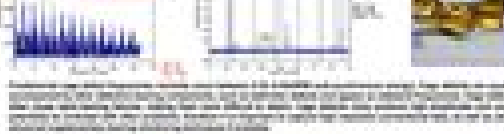


Belts occur when a belt is not properly tensioned or when it is worn. This results in a single peak at 1X RPM in the vibration spectrum.

ROLLING ELEMENT BEARINGS



Rolling element bearings are a common cause of vibration in rotating machinery. They consist of two rings, an inner ring and an outer ring, with balls or rollers in between. If the balls or rollers are damaged, they will cause a single peak at 1X RPM in the vibration spectrum.



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GEAR DEFECTS



Gear defects are a common cause of vibration in rotating machinery. They occur when the teeth of a gear are damaged, causing a single peak at 1X RPM in the vibration spectrum.



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RESONANCE



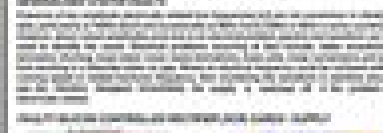
Resonance is a condition where the frequency of an external force matches the natural frequency of a system, causing a sharp increase in vibration amplitude.



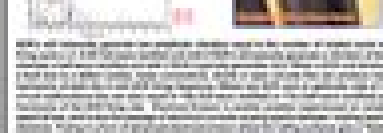
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Vibrations Analysis Study Guide

PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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Scientific and Technical Aerospace Reports , 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Mechanical Vibrations* Shrikant Bhawe, 2010 Mechanical Vibrations is an unequaled combination of conventional vibration techniques along with analysis design computation and testing Emphasis is given on solving vibration related issues and failures in industry *Tapered Beams in MEMS* Wajih U. Syed, Ibrahim (Abe) M. Elfadel, 2024-10-18 This book addresses important aspects of MEMS designs that are well established in engineering practice

but rarely discussed in the standard textbooks One such aspect is the ubiquitous use of tapered beams in the sensing and actuation elements of MEMS designs As explained in this book the tapered beam has distinct advantages over the standard rectangular beam but these advantages are often left unarticulated due to the blind trust in the finite element models of MEMS devices In this monograph the authors take a fundamental physics based approach to the modeling of tapered beams in MEMS that is based on a rigorous perturbation analysis of the traditional Euler Bernoulli beam The authors demonstrate how perturbation methods combined with symbolic modeling and the tools of computer algebra enable the development of semi analytical models for tapered beam MEMS elements They pay particular attention to the application of these novel models to piezoelectric MEMS energy harvesters with tapered beam elements including the development of lumped parameter circuit models that can be readily used for fast electro mechanical simulations Another important aspect of MEMS designs that is extensively addressed in the book is the uncertainty quantification UQ of tapered beam MEMS elements using both Monte Carlo and polynomial chaos expansion methods These UQ methods are applied to the design of variation aware piezoelectric energy harvesters With consistent focus on MEMS devices with tapered beam elements this up to date monograph

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