



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 in the machinery, causing a single peak at 1X RPM in the vibration spectrum.

BELTS

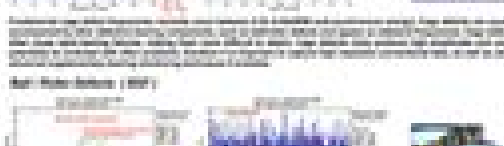


Belts occur when a belt is not properly tensioned or aligned, causing a single peak at 1X RPM in the vibration spectrum.

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 can cause a single peak at 1X RPM in the vibration spectrum.



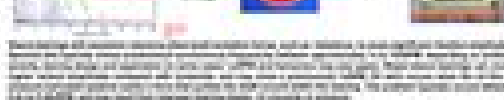
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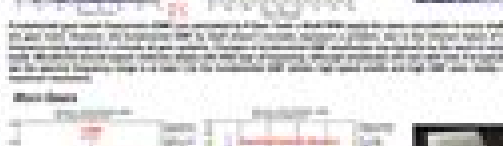
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GEAR DEFECTS



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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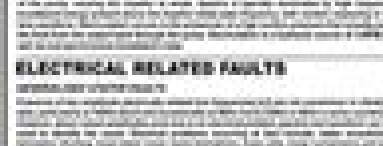
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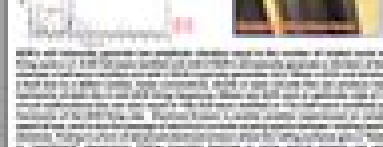
Resonance occurs when the frequency of a vibration matches the natural frequency of the system, causing a single peak at 1X RPM in the vibration spectrum.



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Vibration Analysis Study Guide

Michal Rosen-Zvi



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Balachandran,Edward B. Magrab,2018-11 Provides an introduction to the modeling analysis design measurement and real world applications of vibrations with online interactive graphics **Advances in Design and Automation** Ajit Kumar,Ganesh Iyer,Ulkesh Desai,Arun Kumar,2025-02-19 This book presents the select proceedings of International Conference on Futuristic Advancements in Materials Manufacturing and Thermal Sciences ICFAMMT 2024 It focuses on the recent advances in applied mechanics approaches and application of technologies like Internet of Things IoT big data cyber physical systems CPS and smart factory to problems in design engineering It highlights the applications of artificial intelligence and machine learning to the aspects of mechanical design This book is useful for researchers and professionals in mechanical engineering and those working in IoT big data CPS and Industry 4 0

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