



VIBRATION ANALYSIS CHART

IMBALANCE



Imbalance is the most common cause of vibration in rotating machinery. It is caused by an uneven distribution of mass around the axis of rotation. This results in a single peak at 1X RPM in the vibration spectrum. The peak amplitude is proportional to the amount of imbalance.

MISALIGNMENT



Misalignment occurs when two shafts are not perfectly aligned. This causes a double peak at 1X and 2X RPM in the vibration spectrum. The peak amplitude is proportional to the amount of misalignment.

LOOSENESS



Looseness occurs when a component is not properly secured. This causes a broad peak at 1X RPM in the vibration spectrum. The peak amplitude is proportional to the amount of looseness.

BLADE / VANE PASS



Blade/vane pass occurs when a blade or vane passes a fixed point. This causes a peak at a high frequency in the vibration spectrum. The peak amplitude is proportional to the amount of blade/vane pass.

BELTS

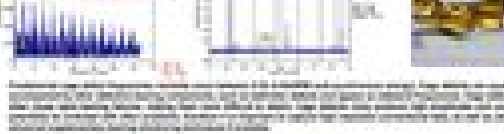


Belts occur when a belt is not properly tensioned. This causes a peak at a low frequency in the vibration spectrum. The peak amplitude is proportional to the amount of belt tension.

ROLLING ELEMENT BEARINGS



Rolling element bearings are a common cause of vibration. They can fail due to a variety of reasons, including wear, fatigue, and contamination. This results in multiple peaks at 1X, 2X, and 3X RPM in the vibration spectrum.



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GEAR DEFECTS



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RESONANCE



Resonance occurs when a system is excited at its natural frequency. This causes a sharp peak at a specific frequency in the vibration spectrum. The peak amplitude is proportional to the amount of resonance.



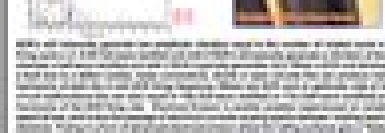
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Vibrations Analysis Study Guide

Marco Cascella



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