



# 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 two shafts are not perfectly aligned, causing them to vibrate as they rotate. This results in a single peak at 1X RPM in the vibration spectrum.

## LOOSENESS (Structural Component)



Looseness occurs when a structural component is not properly secured, causing it to vibrate as it rotates. 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 a fixed point, causing it to vibrate. This results in a single peak at 1X RPM in the vibration spectrum.

## BELTS

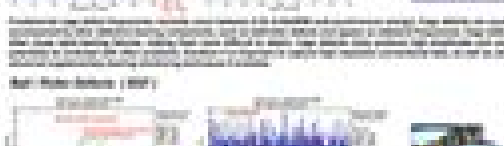


Belts occur when a belt is not properly tensioned, causing it to vibrate. This results in a single peak at 1X RPM in the vibration spectrum.

## 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 vibration.



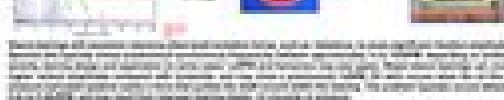
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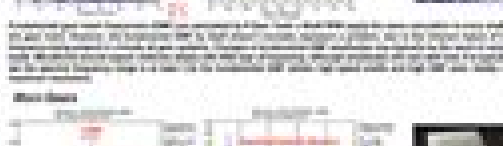
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## GEAR DEFECTS



Gear defects are a common cause of vibration in rotating machinery. They occur when the teeth of a gear are damaged, causing it to vibrate as it rotates.



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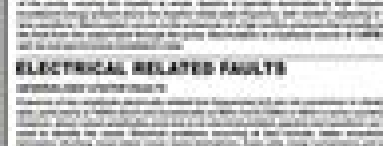
## RESONANCE



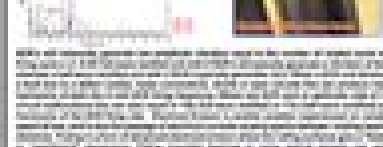
Resonance occurs when the frequency of a vibration matches the natural frequency of a system, causing the amplitude of the vibration to increase significantly.



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# Vibrations Analysis Study Guide

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## **Vibrations Analysis Study Guide:**

## The Enigmatic Realm of **Vibrations Analysis Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Vibrations Analysis Study Guide** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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