



# VIBRATION ANALYSIS CHART



## IMBALANCE



## MISALIGNMENT



## LOOSENESS



## BLADE / VANE PASS



## BELTS



## ROLLING ELEMENT BEARINGS



Rolling element bearings are the most common type of bearing used in machinery. They consist of an inner ring, an outer ring, and rolling elements (balls or rollers) held in place by a cage. They are used to reduce friction and support loads.



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## SLEEVE BEARINGS



Sleeve bearings are a type of bearing used in machinery. They consist of a sleeve that fits over a shaft and is supported by a housing. They are used to reduce friction and support loads.

## GEAR DEFECTS



Gear defects are common in machinery and can cause significant vibration. They include pitting, scoring, and wear. Pitting is a surface defect that occurs when small pits form on the gear teeth. Scoring is a surface defect that occurs when the gear teeth are damaged by friction. Wear is a surface defect that occurs when the gear teeth are worn down.



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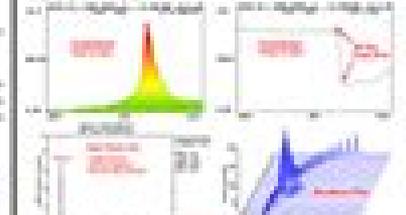
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## BEAT VIBRATION



Beat vibration is a type of vibration that occurs when two frequencies are close together. It is characterized by a high-frequency carrier wave that is modulated by a lower-frequency envelope. This results in a periodic variation in the amplitude of the vibration.

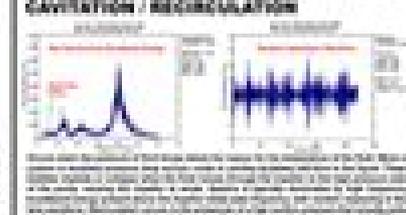
## RESONANCE



Resonance is a phenomenon that occurs when the frequency of an external force matches the natural frequency of a system. This causes the amplitude of the vibration to increase significantly. Resonance can be a problem in machinery because it can lead to excessive wear and failure.

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## CAVITATION / RECIRCULATION



Cavitation is a phenomenon that occurs when the pressure in a liquid drops below its vapor pressure. This causes the liquid to form bubbles that collapse when the pressure increases. This can cause significant vibration and damage to machinery.

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## ELECTRICAL RELATED FAULTS



Electrical related faults can cause significant vibration in machinery. They include short circuits, open circuits, and ground faults. Short circuits occur when there is an unintended connection between two conductors. Open circuits occur when there is a break in the electrical circuit. Ground faults occur when there is an unintended connection between a conductor and ground.

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# Category 1 Vibration Analyst Study Guide

**American Council on Education**



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