

DYNAMIC BALANCING OF ROTATING MACHINERY

INTRODUCTION TO DYNAMIC BALANCING

Dynamic balancing is a critical process in the design and manufacturing of rotating machinery, aimed at reducing vibration, noise, and wear, and ensuring the longevity and efficiency of equipment. It involves adjusting the mass distribution of a rotating body so that the center of mass aligns with the axis of rotation, minimizing imbalance and its effects.

KEY CONCEPTS

- Imbalance:** Occurs when the mass distribution of a rotating body is not uniform, leading to vibrations and noise. It can be static imbalance (mass concentrated at one point) or dynamic imbalance (mass distributed unevenly).
- Static Imbalance:** Occurs when the center of mass is not aligned with the axis of rotation, causing the body to wobble. It can be corrected by adding or removing mass at specific points.
- Dynamic Imbalance:** Occurs when the mass distribution is not uniform, leading to vibrations and noise. It can be corrected by adding or removing mass at specific points.
- Resonance:** Occurs when the frequency of vibration matches the natural frequency of the system, leading to large amplitude vibrations and potential failure.
- Unbalance Vectors:** Represented by a complex number, where the magnitude is the unbalance magnitude and the angle is the phase angle. The sum of all unbalance vectors must be zero for a perfectly balanced system.

BASIC PRINCIPLES OF DYNAMIC BALANCING

Dynamic balancing is achieved by ensuring the following conditions:

- Static Balance:** The center of mass must be aligned with the axis of rotation, ensuring no net moment is generated.
- Dynamic Balance:** The mass distribution must be uniform, ensuring no net moment is generated at any point along the axis of rotation.
- Resonance Avoidance:** The operating speed must be kept away from the natural frequency of the system to avoid large amplitude vibrations.

Dynamic Balancing Of Rotating Machinery Experiment

SJ Ball



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