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Introduction to Mechanical Vibration This note explains the following topics: Modeling, Linearization, Free Undamped Vibration, Measurement and Design Consideration, Forced Undamped Vibration, Force Damped Vibration, Free Undamped Vibration, Response to Free Undamped Vibration, Design for Vibration Suppression or Absorbers, Vibration Testing.

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Vibrations are oscillations in mechanical dynamic systems. Although any system can oscillate when it is forced to do so externally, the term "vibration" in mechanical engineering is often reserved for systems that can oscillate freely without applied forces.

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- Vibration can be used for useful purposes such as vibration testing equipments, vibratory conveyors, hoppers, sieves and compactors.
- Vibration is found very fruitful in mechanical workshops such as in improving the efficiency

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