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## **Mechanical Structural Vibrations Theory Applications**

Vibration is a  
continuous cyclic  
motion of a structure  
or a component.

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Generally, engineers try to avoid vibrations, because vibrations have a number of unpleasant effects: · Cyclic motion implies cyclic forces. Cyclic forces are very damaging to materials.

## **Dynamics and Vibrations: Notes: Overview of Vibrations**

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Vibration is a mechanical phenomenon whereby oscillations occur about an equilibrium point. The word comes from Latin vibrationem ("shaking, brandishing"). The oscillations may be periodic , such as the motion of a pendulum—or random , such as the movement of a tire on a gravel road.

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**Mechanical and  
structural vibrations  
(Book, 1995 ...**

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mechanically resonant.

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