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1.1 THE STUDY OF VIBRATIONS Vibrations are oscillations of a mechanical or structural system about an equilibrium position. Vibrations are initiated when an inertia element is displaced from its equilibrium position due to an energy imparted to the system through an external source.

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An Introduction to Vibration Analysis Theory and Practice

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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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About Engineering Vibration Books. 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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lost (damper).The vibration of a system involves the alternating transfer of energy between its potential and kinetic forms. In a damped system, some energy is dissi-pated at each cycle of vibration and must be replaced from an external source if a steady vibration is to be maintained.Although a single physical structure may store

Ralph E. Blake

Mechanical Vibrations A mass mis suspended at the end of a spring, its weight stretches the spring by a length L_0 to reach a static state (the equilibrium position of the system). Let $u(t)$ denote the displacement, as a function of time, of the mass relative to its equilibrium position.

Mechanical Vibrations - Pennsylvania State University

A vibration isolator in its most elementary form may be considered as a resilient member connecting the equipment and foundation. The function of an isolator is to reduce the magnitude of motion transmitted from a vibrating foundation to the equipment or to reduce the magnitude of force transmitted from the equipment to its foundation.

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