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ME 563 Mechanical Vibrations Fall 2010 1-2 1 Introduction to Mechanical Vibrations 1.1 Bad vibrations, good vibrations, and the role of analysis 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

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Free Vibration 1.1 Theory 1.1.1 Free Vibration, Undamped Consider a body of mass m supported by a spring of stiffness k , which has negligible inertia (Figure 1.1). Let the mass be given a downward displacement

from the static equilibrium position and released. At some time t the mass will be at a distance x from the equilibrium position and the

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The purpose of this text is to provide the students with the theoretical background and engineering applications of the theory of vibrations of mechanical systems. It is divided into two parts.

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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. Mechanical Vibrations

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