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Vibrations. Schaum's Outlines - Mechanical Vibrations; Some example problems/solutions; Mechanical Vibrations - J.P. Den Hartog; Elements of Vibration Analysis - Leonard Meriovitch; Vibration Problems in Engineering - S. Timoshenko; Engineering Vibration - Daniel Inman; Mechanical and Structural Vibrations: Theory and Applications - Jerry ...

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Mechanical Vibrations. We are going to start with a spring of length  $l$ , called the natural length, and we're going to hook an object with mass  $m$  up to it. When the object is attached to the spring the spring will stretch a length of  $L$ . We will call the equilibrium position the position of the center of gravity for the object as it hangs on the spring with no movement.

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Undamped Free Vibration ( $\gamma = 0$ ,  $F(t) = 0$ ) The simplest mechanical vibration equation occurs when  $\gamma = 0$ ,  $F(t) = 0$ . This is the undamped free vibration. The motion equation is  $m u'' + k u = 0$ . The

characteristic equation is  $m r^2 + k = 0$ . Its solutions are  $i m k r = \pm$ . The general solution is then  $u(t) = C_1 \cos \omega_0 t + C_2 \sin \omega_0 t$ . Where  $m k \omega$

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1.2 Modeling issues. Modeling is usually 95% of the effort in real-world mechanical vibration problems; however, this course will focus primarily on the derivation of equations of motion, free response and forced response analysis, and approximate solution methods for vibrating systems.

### **ME 563 MECHANICAL VIBRATIONS - Purdue Engineering**

All bodies possess mass and elasticity are capable of vibration. The mass is inherent of the body, and the elasticity is due to the relative motion of the parts of the body. The system considered may be very simple or complex. It may be in the form of a structure, a machine or its components, or a group of machines.

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Forced Mechanical Vibrations Today we use methods for solving nonhomogeneous second order linear differential equations to study the behavior of mechanical systems. 1. Forcing: Transient and Steady State Solutions 2. Forcing: Resonance 1 Transient and Steady State Solutions Let us now consider  $m y'' + b y' + k y = g(t)$

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About the Book. UPDATED! Several additions and modifications to make the coverage of vibration more comprehensive and presentation easier to follow in the Sixth Edition, including suggestions by text users and reviewers: A brief discussion of the anatomy of the human ear is presented with an explanation of how vibrations are converted into sound.

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