



## MECHANICAL VIBRATIONS THEORY AND APPLICATIONS SOLUTIONS MANUAL

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mechanics, to electrical instrumentation and analog and digital signal processing theory, to machinery and building design. Most human activities involve vibration in one form or other. For example, we hear because our eardrums vibrate and see because light waves undergo vibration.

### **Chapter 1: Basics of Vibrations for Simple Mechanical Systems**

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Mechanical Vibrations A mass  $m$  is suspended at the end of a spring, its weight stretches the spring by a length  $L$  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. Recall that the textbook's convention is that

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