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Fundamentals of Noise, Vibration, and Harshness The amount of vertical movement of the spring and weight (vibrating system) is the amplitude of the vibration. The amplitude is determined by the external force or energy applied to the vibrating system. Amplitude is the size of the wave and is measured two ways.

Section 1 FUNDAMENTALS OF NOISE, VIBRATION, AND HARSHNESS

FUNDAMENTALS OF ACOUSTICS, NOISE, AND VIBRATION. Malcolm J. Crocker. Department of Mechanical Engineering Auburn University Auburn, Alabama 1 INTRODUCTION. The vibrations in machines and structures result in oscillatory motion that propagates in air and/or water and that is known as sound. Sound can also be produced by the oscillatory motion of the fluid itself, such as in the case of the turbulent mixing of a jet with the atmosphere, in which no vibrating structure is involved.

CHAPTER 1 FUNDAMENTALS OF ACOUSTICS, NOISE, AND VIBRATION

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4 CHAPTER 1 FUNDAMENTALS OF VIBRATION 1 2 3 String Weight FIGURE 1.2 Monochord. conducted experiments on a vibrating string by using a simple apparatus called a mono-chord. In the monochord shown in Fig. 1.2 the wooden bridges labeled 1 and 3 are fixed.

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