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(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

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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 monochord. In the monochord shown in Fig. 1.2 the wooden bridges labeled 1 and 3 are fixed.

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