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Fundamentals of Noise and Vibration is based on the first semester of the postgraduate Masters' course in Sound and Vibration Studies at the Institute of Sound and Vibration Research, at the University of Southampton. The main objective of the course is to provide students with the skills and knowledge required to practise in the field of noise and vibration control technology.

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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.

**Fundamentals of Vibration**—Unife

Fundamentals of Noise and Vibration is based on the first semester of the postgraduate Masters' course in Sound and Vibration Studies at the Institute of Sound and Vibration Research, at the University of Southampton. The main objective of the course is to provide students with the skills and knowledge required to practise in the field of noise and vibration control technology. Readers do not need prior formal training in acoustics although a basic understanding of mechanics, fluid dynamics ...

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