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we begin our study of waves in this first unit of physics 7c with an introduction to waves and then a thorough development of the harmonic plane wave model which we will use extensively to model and understand a wide variety of wave phenomena in this section we will familiarize ourselves with waves by focusing on material waves key points a wave is a repeating disturbance that travels through matter or space transferring only energy below is a model of a wave a wave's crest is its highest point and its trough is its lowest point a wave's amplitude is the maximum distance positive or negative a wave reaches from its rest position there are familiar everyday sorts of waves in water ropes and springs there are less visible but equally pervasive sound waves and electromagnetic waves even more important though only touched on in this book is the wave phenomenon of quantum mechanics built into the fabric of our space and time waves display several basic phenomena in reflection a wave encounters an obstacle and is reflected back in refraction a wave bends when it enters a medium through which it has a different speed in diffraction waves bend when they pass around small obstacles and spread out when they pass through small openings waves transfer energy momentum and information but not mass a naive description of a wave is that it has something to do with motion but the motion of a wave on the water is not the same as the motion of the water from a hose when waves move over the surface of the ocean where does the ocean go nowhere about transcript transverse and longitudinal waves are two types of mechanical waves which involve the transfer of energy through a medium e.g. water air a solid learn about transverse and longitudinal waves through the examples of a shaken rope and a sound wave key points some waves can only travel through a material or medium such as air or water these are called mechanical waves sound waves water waves and seismic waves are all types of mechanical waves other waves called electromagnetic waves can travel through a medium or through a vacuum where there is no matter such as outer space watch physics amplitude period frequency and wavelength of periodic waves this video is a continuation of the video introduction to waves from the types of waves section it discusses the properties of a periodic wave amplitude period frequency wavelength and wave velocity tips for success the repeating and periodic disturbance that moves through a medium from one location to another is referred to as a wave what is a medium but what is meant by the word medium a medium is a substance or material that carries the wave you have perhaps heard of the phrase news media this free textbook is an openstax resource written to increase student access to high quality peer reviewed learning materials in physics mathematics engineering and related fields a wave is a propagating dynamic disturbance change from equilibrium of one or more quantities periodic waves oscillate repeatedly about an equilibrium resting value at some frequency the physics classroom physics tutorial vibrations and waves categories of waves vibrations and waves lesson 1 the nature of a wave categories of waves waves

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