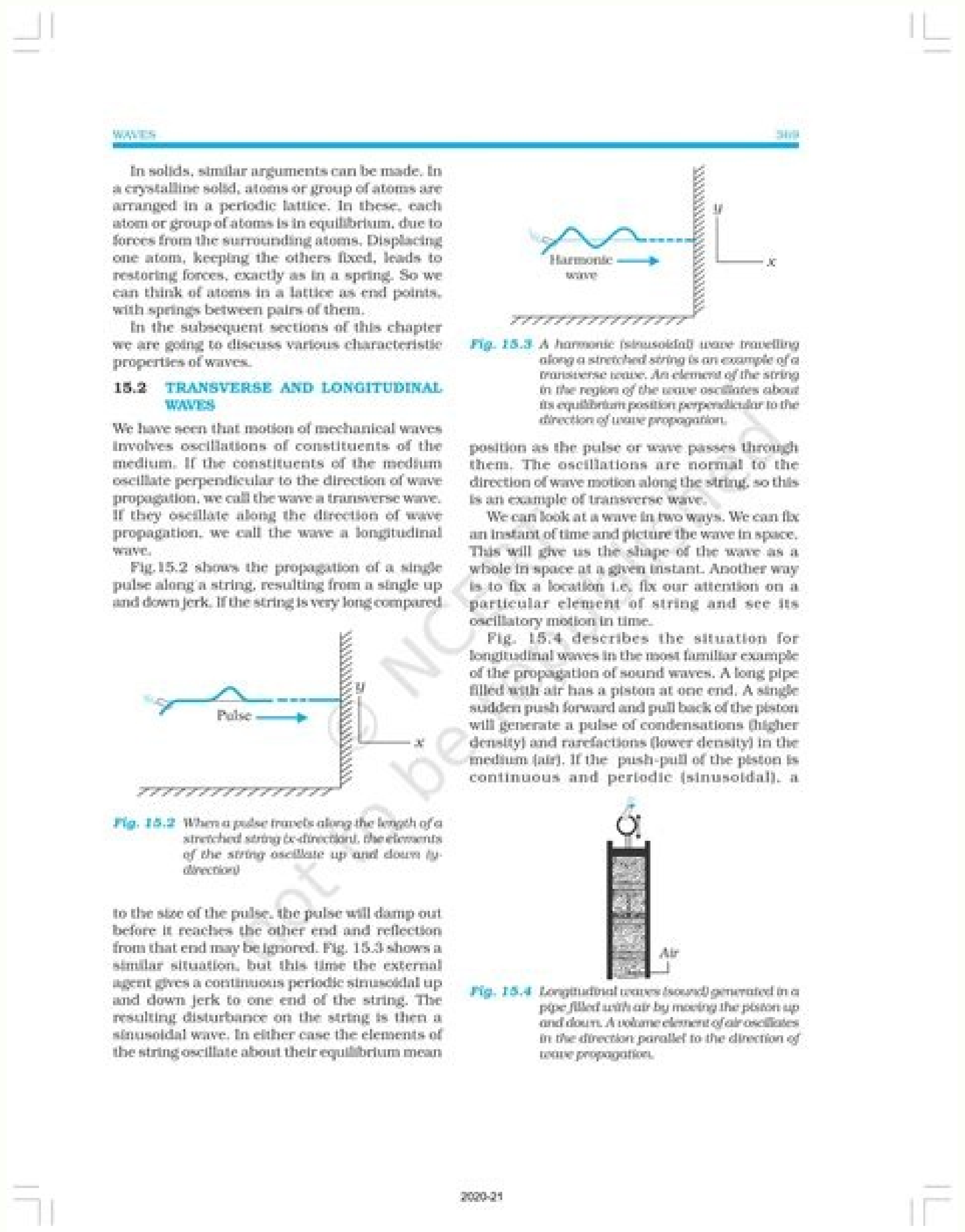
Ncert physics class 11 waves pdf



In solids, similar arguments can be made. In a crystalline solid, atoms or group of atoms are arranged in a periodic lattice. In these, each atom or group of atoms is in equilibrium, due to forces from the surrounding atoms. Displacing one atom, keeping the others fixed, leads to restoring forces, exactly as in a spring. So we can think of atoms in a lattice as end points, with springs between pairs of them.

In the subsequent sections of this chapter we are going to discuss various characteristic properties of waves.

15.2 TRANSVERSE AND LONGITUDINAL WAVES

We have seen that motion of mechanical waves involves oscillations of constituents of the medium. If the constituents of the medium oscillate perpendicular to the direction of wave propagation, we call the wave a transverse wave. If they oscillate along the direction of wave propagation, we call the wave a longitudinal wave.

Fig.15.2 shows the propagation of a single pulse along a string, resulting from a single up and down jerk. If the string is very long compared to the size of the pulse, the pulse will damp out before it reaches the other end and reflection from that end may be ignored. Fig. 15.3 shows a similar situation, but this time the external agent gives a continuous periodic sinusoidal up and down jerk to one end of the string. The resulting disturbance on the string is then a sinusoidal wave. In either case the elements of the string oscillate about their equilibrium mean position as the pulse or wave passes through them. The oscillations are normal to the direction of wave motion along the string, so this is an example of transverse wave.

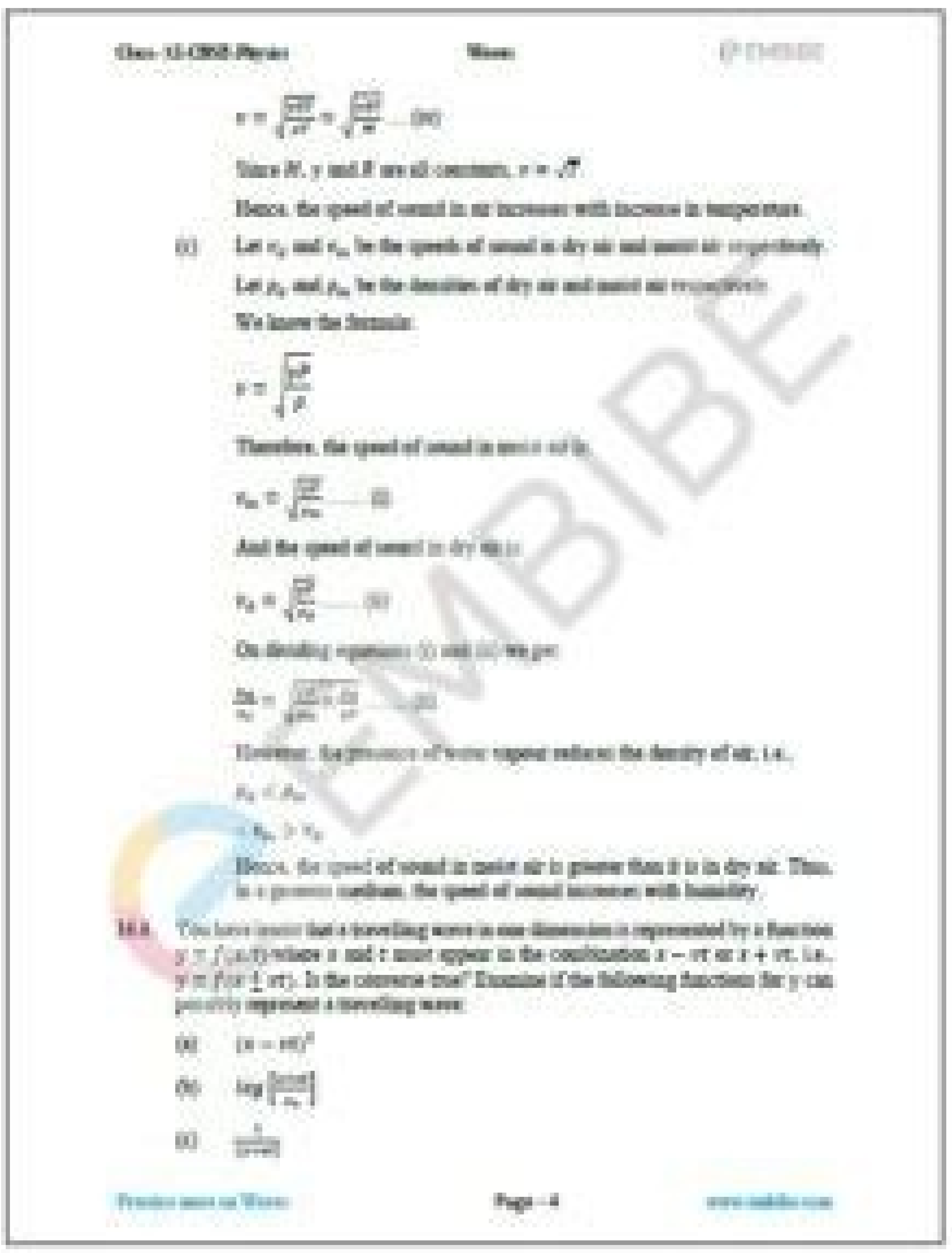
Fig. 15.2 When a pulse travels along the length of a stretched string (x-direction), the elements of the string oscillate up and down (y-direction)

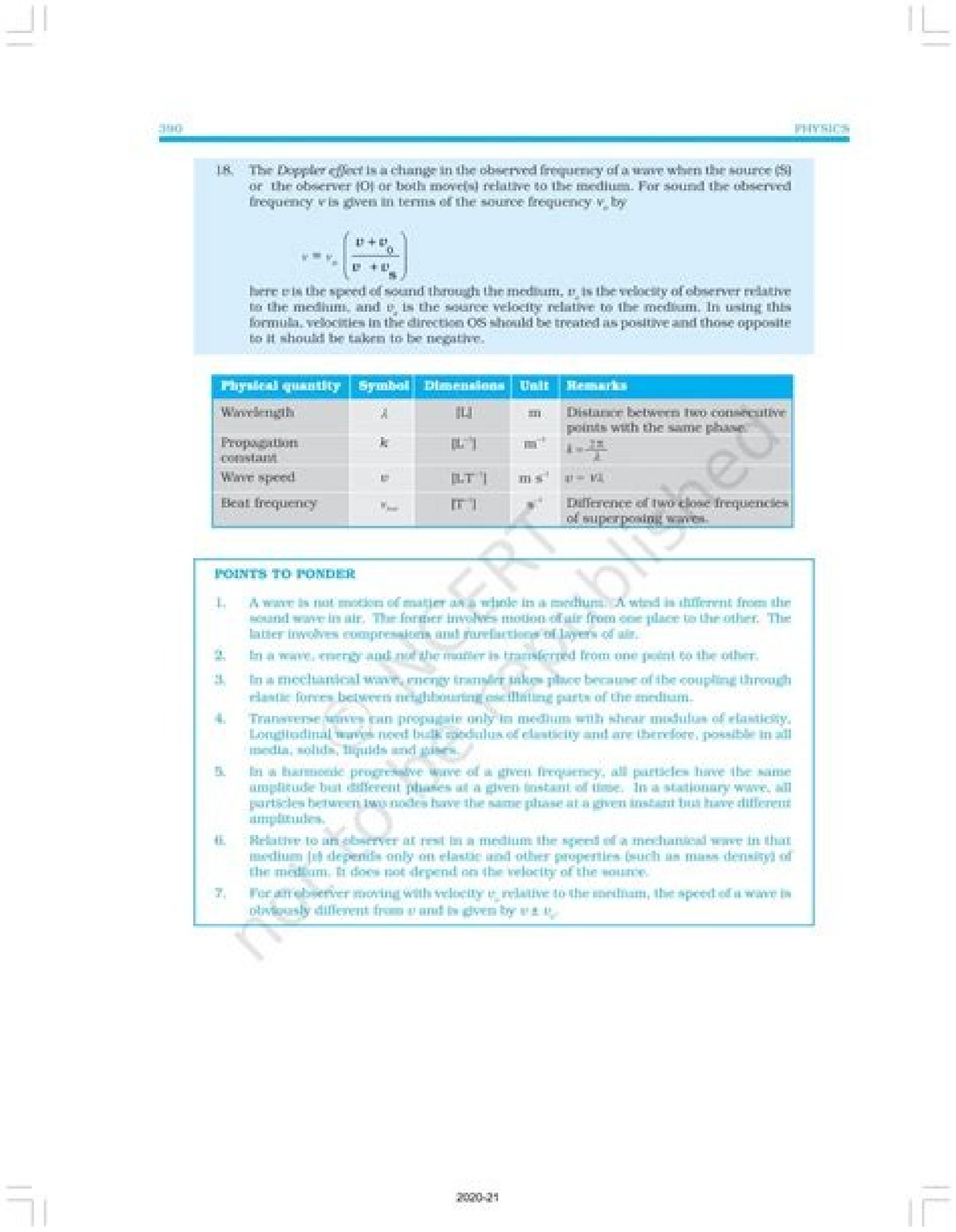
Fig. 15.3 A harmonic (sinusoidal) wave travelling along a stretched string is an example of a transverse wave. An element of the string in the region of the wave oscillates about its equilibrium position perpendicular to the direction of wave propagation.

We can look at a wave in two ways. We can fix an instant of time and picture the wave in space. This will give us the shape of the wave as a whole in space at a given instant. Another way is to fix a location i.e. fix our attention on a particular element of string and see its oscillatory motion in time.

Fig. 15.4 describes the situation for longitudinal waves in the most familiar example of the propagation of sound waves. A long pipe filled with air has a piston at one end. A single sudden push forward and pull back of the piston will generate a pulse of condensations (higher density) and rarefactions (lower density) in the medium (air). If the push-pull of the piston is continuous and periodic (sinusoidal), a

Fig. 15.4 Longitudinal waves (sound) generated in a pipe filled with air by moving the piston up and down. A volume element of air oscillates in the direction parallel to the direction of wave propagation.





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18. The *Doppler effect* is a change in the observed frequency of a wave when the source (S) or the observer (O) or both move(s) relative to the medium. For sound the observed frequency ν is given in terms of the source frequency ν_s by

$$\nu = \nu_s\left(\frac{v+v_o}{v+v_s}\right)$$

here v is the speed of sound through the medium, v_o is the velocity of observer relative to the medium, and v_s is the source velocity relative to the medium. In using this formula, velocities in the direction OS should be treated as positive and those opposite to it should be taken to be negative.

Physical quantity	Symbol	Dimensions	Unit	Remarks
Wavelength	λ	[L]	m	Distance between two consecutive points with the same phase.
Propagation constant	k	$[L^{-1}]$	m^{-1}	$k = \frac{2\pi}{\lambda}$
Wave speed	v	$[LT^{-1}]$	$m\ s^{-1}$	$v = \nu\lambda$
Beat frequency	ν_{beat}	$[T^{-1}]$	s^{-1}	Difference of two close frequencies of superposing waves.

POINTS TO PONDER

1. A wave is not motion of matter as a whole in a medium. A wind is different from the sound wave in air. The former involves motion of air from one place to the other. The latter involves compressions and rarefactions of layers of air.
2. In a wave, energy and not the matter is transferred from one point to the other.
3. In a mechanical wave, energy transfer takes place because of the coupling through elastic forces between neighbouring oscillating parts of the medium.
4. Transverse waves can propagate only in medium with shear modulus of elasticity. Longitudinal waves need bulk modulus of elasticity and are therefore, possible in all media, solids, liquids and gases.
5. In a harmonic progressive wave of a given frequency, all particles have the same amplitude but different phases at a given instant of time. In a stationary wave, all particles between two nodes have the same phase at a given instant but have different amplitudes.
6. Relative to an observer at rest in a medium the speed of a mechanical wave in that medium (v) depends only on elastic and other properties (such as mass density) of the medium. It does not depend on the velocity of the source.
7. For an observer moving with velocity v_o relative to the medium, the speed of a wave is obviously different from v and is given by $v \pm v_o$.

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Take 10 minutes to review the principles you have learned. Explains the concept related to the changes in weight due to the change in force and exhaust velocities.In addition, this segment covers information about geostationary and polar satellites. The theme refers to the propagation process of light and sound in different media.The chapter has been prepared to facilitate understanding of the concept of effective learning. This is critical, because you may know the answer, but you cannot remember it.The most important thing for students to know about the class 11 physics is the exam format and syllabus. Questions based on diagrams will be given to the students, and they will be able to get full marks on them.Before final exams, students should review all relevant topics, formulas and definitions. This chapter also covers the theories of perpendicular and parallel axes.Chapter 8: GravitationThe NCERT 11th Physics PDF chapter explains the changes by gravitational forces in nature and their interactions. The unit weight for physics is clearly given in the table below:UnitBehaviorMarks1Physical World and Measurement32 Kinematics103Laws of Motion104Work, Energy and Power65Motion of System of Particles and Rigid Body66Gravitation57Properties of Matter in Mass108Thermodynamics59Perfect Gas Behavior and Kinetic Theory of Gases510Oscillations and Waves10TotalÂ 70Chapter The 11th NCERT PDF contains a total of 15 chapters on various topics. Therefore, the NCERT book of class 11 physics is an ideal choice when preparing for the CBSE exams.Tips to excel in class 11 subject fÃsica:O advice provided here can help students prepare for class 11 CBSE physics. 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It covers the relationship between the temperature of a body and heat conduction.You can also learn about the equation for an ideal gas and measuring changes in temperature. Periodic and oscillatory motion are followed by simple harmonic motion, frequency, and displacement; velocity and acceleration, simple pendulum, etc. It would be followed by concepts of projectile motion, rectilinear motion and others in earlier chapters.The description of oscillations specifically requires some basic concepts such as period, frequency, displacement, amplitude, and phase.The fundamental concepts mentioned above are developed in this chapter. This will also allow students to feel less stressed. With e-learning, you can get rid of these problems very easily, and whenever this happens, online learning offers regular and structured training that is suitable for learners. 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This segment of physics helps you to understand vital concepts such as calorimetry, heat transfer of an object to another and change of a material materials, etc. If you are preparing for CBSE examinations, this chapter has the highest meaning, as it covers the specific capacity of heat and cooling laws propitiated by Newton. However, a question with a weight of 2 Marcos, a question with a weight of 3 milestones and the three questions with a weight of 5 lands have an internal choice. The summary of premises and practical exercises for better results.Capture 13: Cinema Cinematics 13 In the Book of NCTERT CASSIC OF THE CLASS 11 PDF covers the following topics of the Cinema and Introduction the broader concepts relating to theory. You can also download PDF files for e-learning.Capture 2: Units and Measurement Closing NCTERT 11th Physics Book PDF Chapter Covers vital aspects of measurement - Duration, time and pasta. Download the Mobile Vedantu application to raise your knowledge! 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