

Physics First Study Guide

Equations:

Wave speed, frequency and wavelength

v = velocity or speed

f = frequency (or pitch if sound)

λ = wavelength

$$v = f \lambda$$

$$f = \frac{v}{\lambda}$$

$$\lambda = \frac{v}{f}$$

Standing Waves

On a string: $f = \frac{nv}{2L}$

where $n=1$ is the fundamental, $n=2$ second harmonic, $n=3$ third harmonic..

L = length of string

v = speed of wave on that string

In tube open at both ends: $f = \frac{nv}{2L}$

where $n=1$ is the fundamental, $n=2$ second harmonic, $n=3$ third harmonic..

L = length of pipe

v = speed of sound = 345 m/s

In tube open at only one end: $f = \frac{nv}{4L}$

where $n=1$ is the fundamental, **$n=3$** second harmonic, **$n=5$** third harmonic..

L = length of pipe

v = speed of sound = 345 m/s

Misc.:

The speed of sound is $v = 345$ m/s

The speed of light is $v = 3 \times 10^8$ m/s = 300,000,000 m/s

kHz = 1,000 Hz

MHz = 1,000,000 Hz

Chapters in Book:

Chapter 25 Vibrations and Waves

Chapter 26 Sound

Chapter 27 Light

Physics Study Guide Answer

Stephen J. Powers

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