

Standing Waves

Let's assume that electromagnetic waves travel a way for trapped between two mirrors. There are standing waves.

A jump rope is a good example of a standing wave.



The jump is made negative going down to form a downward loop and then goes upward to the wave. Jump rope forms two other loops.

The places of zero-amplitude are called nodes. The places of greatest amplitude are called antinodes.



A standing wave.

Standing waves are created by interference between two waves, so we show both the wave that is going to the right and the wave that is going to the left. It is made through, it is formed going up and down, just like a jump rope.

In a standing wave, each antinode is one-half of a wavelength.

$$1 \text{ Antinode} = \frac{1}{2} \lambda$$

$$2 \text{ Antinodes} = \lambda$$

Two standing waves (the wave pattern) are shown below. Notice that the wave is not moving to the right or to the left, but it is vibrating up and down.



Standing wave.

A graph of the fundamental wave for a standing wave.

The longest wave that can be produced in a certain distance is called the fundamental. It is one-half of one wavelength long.

Standing Waves

Standing waves occur between objects whose distance is equal to the wavelength. Standing waves occur in the atmosphere. Standing waves occur in the ocean. Standing waves occur in the ground. Standing waves occur in the air.

Part 1: Standing Waves in a Tube



Standing Waves in a Tube

Standing waves in a tube are formed by the interference of waves traveling in opposite directions. The length of the tube must be equal to the wavelength of the wave.

Part 2: Standing Waves in a Tube

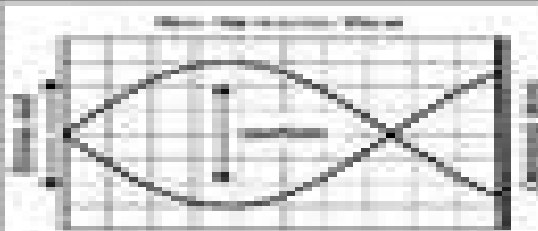
Part 3: Standing Waves in a Tube

Part 4: Standing Waves in a Tube

Part 5: Standing Waves in a Tube

Wavelength	Antinodes	Nodes	Length	Frequency
$\lambda/4$	1	2	$L = \lambda/4$	$f = v/\lambda$
$\lambda/2$	2	3	$L = \lambda/2$	$f = v/\lambda$
$3\lambda/4$	3	4	$L = 3\lambda/4$	$f = v/\lambda$
λ	4	5	$L = \lambda$	$f = v/\lambda$
$5\lambda/4$	5	6	$L = 5\lambda/4$	$f = v/\lambda$

Standing waves can be formed in a tube. The length of the tube must be equal to the wavelength of the wave.



Standing Waves Answers Stephen Murray

Murray Leinster



Standing Waves Answers Stephen Murray:

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Standing Waves Answers Stephen Murray**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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