

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 disturbance and then goes away to the wave. Jump rope is like a standing wave.

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



A standing wave.

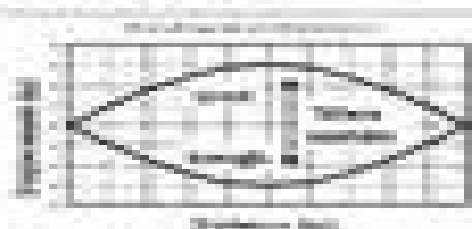
Standing waves are created by interference between two waves, so we have both the wave and the trough at the same place at the same time. In reality, though, it's a mixture going up and down, just like a jump rope.

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 same wave) are shown below. Notice that some waves do not move up or down as a whole, but the wave is not moving through the wave.



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 fundamental. Standing waves occur in the fundamental. Standing waves occur between jump rope, string, and also two, string, rope, and string.

Part 1: Standing Waves in a Tube (String, Rope)



Frequency of Standing Waves

Frequency of the wave is $f_{\text{wave}} = \frac{v}{\lambda}$ and the frequency of the fundamental is f_1 .

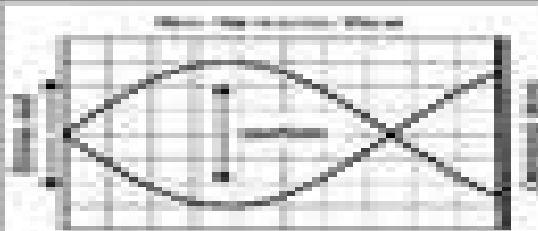
Part 2: Standing Waves in a Tube (String, Rope)

Part 3: Standing Waves in a Tube (String, Rope)

Part 4: Standing Waves in a Tube (String, Rope)

Part 5: Standing Waves in a Tube (String, Rope)

Standing waves can be produced in a tube. The wave is the same as the wave in a string, but it's a standing wave, and it's not a string, rope, and string.



Harmonic	Antinodes	Nodes	Length	Frequency
1st	1	2	$\frac{1}{2} \lambda$	f_1
2nd	2	3	λ	$2f_1$
3rd	3	4	$\frac{3}{2} \lambda$	$3f_1$
4th	4	5	2λ	$4f_1$
5th	5	6	$\frac{5}{2} \lambda$	$5f_1$

Standing Waves Unit 10 3 C Stephen Murray Answers

Puja Mehta



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