

Standing Waves

Let's assume that electromagnetic waves travel at c . For a string between two fixed points, 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 string) are shown below. Notice that more energy is required to be spread as a string by the time it has more peaks/troughs than the first.



Standing wave

A graph of the fundamental wave for a string fixed at both ends.

The longest wave that can be produced in a string fixed at both ends is called the fundamental. It is one-half of one wavelength long.

HARMONICS

Harmonics are waves that are whole number multiples of the fundamental. Harmonics have nodes at the boundaries. Harmonics need longer jump than energy longer, and take less energy to produce.

Part 1: Harmonics of a Vibrating String



Frequency of Harmonics

Frequency of the n th harmonic is $f_n = \frac{v}{\lambda_n}$ and the wavelength is $\lambda_n = \frac{2L}{n}$.
 Frequency of the fundamental is f_1 .

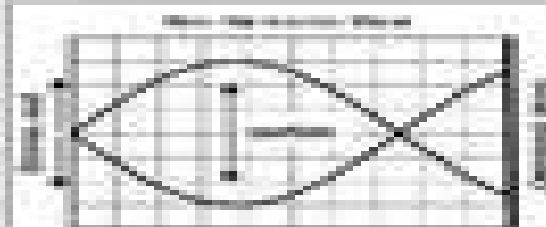
If you alter the frequency of the string harmonic, change it to 10% fundamental.

$$f_1 = 100 \text{ Hz} \quad f_2 = 200 \text{ Hz} \quad f_3 = 300 \text{ Hz} \quad f_4 = 400 \text{ Hz} \quad f_5 = 500 \text{ Hz}$$

If you alter the frequency of the string harmonic, change it to 20% fundamental.

$$f_1 = 100 \text{ Hz} \quad f_2 = 200 \text{ Hz} \quad f_3 = 300 \text{ Hz} \quad f_4 = 400 \text{ Hz} \quad f_5 = 500 \text{ Hz}$$

Harmonics are waves that are whole number multiples of the fundamental. Harmonics have nodes at the boundaries. Harmonics need longer jump than energy longer, and take less energy to produce.



Examples of Harmonics and their Frequencies				
1st Harmonic	2nd Harmonic	3rd Harmonic	4th Harmonic	5th Harmonic
$f_1 = 100 \text{ Hz}$	$f_2 = 200 \text{ Hz}$	$f_3 = 300 \text{ Hz}$	$f_4 = 400 \text{ Hz}$	$f_5 = 500 \text{ Hz}$
$f_1 = 100 \text{ Hz}$	$f_2 = 200 \text{ Hz}$	$f_3 = 300 \text{ Hz}$	$f_4 = 400 \text{ Hz}$	$f_5 = 500 \text{ Hz}$

Standing Waves Answers Stephen Murray

**James Augustus Henry Murray, Henry
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The book delves into Standing Waves Answers Stephen Murray. Standing Waves Answers Stephen Murray is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Standing Waves Answers Stephen Murray, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Standing Waves Answers Stephen Murray in Specific Contexts
 - Chapter 5: Conclusion
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