

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 string wave.

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



A standing wave

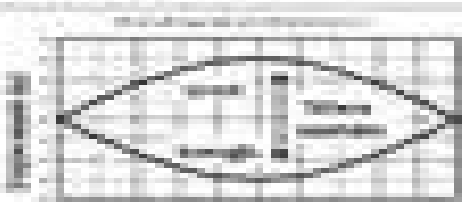
Standing waves are created by two waves traveling in opposite directions, so we have both the crest and the trough at the same place at the same time. In reality, though, it's a mixture going up and down, just like a jump rope.

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

$$1 \text{ Antinode} = (\lambda/2)$$

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

Two jump ropes, the same length, same frequency, same c . Notice that wave away to the right is in phase with the wave at the end, both peaks/troughs/zero.



Standing wave

A graph of the fundamental wave for the string.

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 harmonics. Harmonics could be the jump that string longer, and then two, three, four, etc.

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 fundamental is $f_1 = \frac{v}{\lambda_1}$.
 Frequency of the n th harmonic is $f_n = n f_1$.

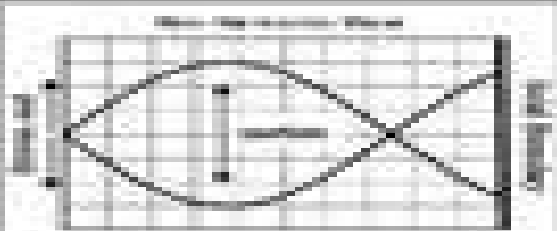
If you know the frequency of the first harmonic, (fundamental), f_1 , then:

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

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Standing waves can be formed in a tube. The wave inside the tube is a standing wave, and it's like a string vibrating.



Examples of Standing Waves and their Harmonics				
1st Harmonic	2nd Harmonic	3rd Harmonic	4th Harmonic	5th Harmonic

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1. Understanding the eBook Standing Waves Stephen Murray Answers
 - The Rise of Digital Reading Standing Waves Stephen Murray Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Standing Waves Stephen Murray Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Standing Waves Stephen Murray Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Standing Waves Stephen Murray Answers
 - Personalized Recommendations
 - Standing Waves Stephen Murray Answers User Reviews and Ratings
 - Standing Waves Stephen Murray Answers and Bestseller Lists
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 - Standing Waves Stephen Murray Answers Enhanced eBook Features
 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Standing Waves Stephen Murray Answers
 - Interactive Elements Standing Waves Stephen Murray Answers
 8. Staying Engaged with Standing Waves Stephen Murray Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Standing Waves Stephen Murray Answers
 9. Balancing eBooks and Physical Books Standing Waves Stephen Murray Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Standing Waves Stephen Murray Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Standing Waves Stephen Murray Answers
 - Setting Reading Goals Standing Waves Stephen Murray Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Standing Waves Stephen Murray Answers
 - Fact-Checking eBook Content of Standing Waves Stephen Murray Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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