

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 the 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 harmonics. Harmonics occur longer, longer than the fundamental, and then two, three, four, etc.

Part 1: Harmonics of a Vibrating String



Frequency of Harmonics

Frequency of the fundamental is $f_1 = \frac{v}{\lambda_1}$ and the frequency of the harmonics is $f_n = \frac{v}{\lambda_n}$.

If the frequency of the fundamental is f_1 , then the frequency of the harmonics is $f_n = n f_1$.

$$f_1 = \frac{v}{\lambda_1} = \frac{v}{2L}$$

$$f_2 = \frac{v}{\lambda_2} = \frac{v}{L}$$

$$f_3 = \frac{v}{\lambda_3} = \frac{3v}{2L}$$

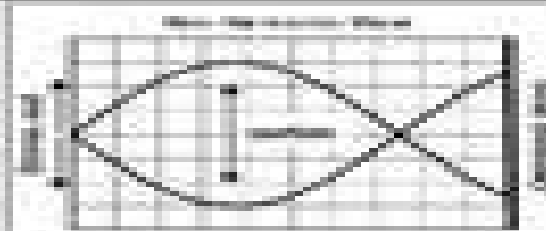
If the frequency of the fundamental is f_1 , then the frequency of the harmonics is $f_n = n f_1$.

$$f_1 = \frac{v}{\lambda_1} = \frac{v}{2L}$$

$$f_2 = \frac{v}{\lambda_2} = \frac{v}{L}$$

$$f_3 = \frac{v}{\lambda_3} = \frac{3v}{2L}$$

The frequency of the harmonics can be found by the frequency of the fundamental. The frequency of the harmonics is $f_n = n f_1$.



Examples of Standing Waves and their Harmonics				
1st Harmonic	2nd Harmonic	3rd Harmonic	4th Harmonic	5th Harmonic
$f_1 = \frac{v}{2L}$	$f_2 = \frac{v}{L}$	$f_3 = \frac{3v}{2L}$	$f_4 = \frac{2v}{L}$	$f_5 = \frac{5v}{2L}$

Standing Waves Stephen Murray Answers

RJ Shavelson



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High Energy Lasers and Their Applications Stephen Jacobs, Stephen F. Jacobs, Murray Sargent, Marlan Orvil Scully, 1974

On the Wave Nature of Matter Donald C. Chang, 2024-02-26 This book presents a new approach to understanding the foundation of quantum physics through the quantum wave model hypothesis. It addresses some of the key challenges in the current quantum theory including the conflict between quantum mechanics and relativity and offers a comprehensive solution to many of the existing mysteries in the field. By proposing that the vacuum is a dielectric medium and quantum particles are quantized excitation waves of the vacuum, the book provides a clear physical interpretation of wave-particle duality and explains the physical basis of energy, momentum, and mass. With topics ranging from the physical foundation of quantum mechanics to the derivation of the quantum wave equations and the resolution of the conflict between quantum physics and relativity, this book offers a comprehensive overview of the most pressing issues in the field. Written at a level accessible to undergraduate students and senior researcher/scientists alike, this book offers a valuable resource for anyone seeking a deeper understanding of quantum mechanics and its fundamental role in shaping our understanding of the physical world.

The Trespasser Tana French, 2016 While Detective Antoinette Conway and her partner Stephen Moran work a seemingly routine investigation of a lovers' quarrel gone bad, they discover the case isn't as by the numbers as they thought.

The Knuckleball Club Richard A. Johnson, 2016-06-09 The knuckleball, so difficult to hit but also difficult to control and catch, has been a part of major league baseball since the early 1900s and continues to be used to this day. This remarkable and unusual pitch is the instrument of a special breed of pitcher: a determined athlete possessing tremendous concentration, self-confidence, and a willingness to weather all kinds of adversity. In *The Knuckleball Club: The Extraordinary Men Who Mastered Baseball's Most Difficult Pitch*, Richard A. Johnson provides an informal history of the wildest, weirdest, most mesmerizing pitch of all time. Beginning with an examination of the invention of the knuckleball, Johnson then briefly touches upon the science and psychology of the pitch before profiling the game's great knuckleballers. Rich in anecdotes and interviews, this book shares the unique stories of Hoyt Wilhelm, Phil Niekro, Jim Bouton, Tom Candiotti, Tim Lincecum, R.A. Dickey, and many others. Also featured are the stories of the best knuckleball catchers from Bob Uecker and Doug Mirabelli to Rick Ferrell and Paul Richards. While knuckleballers today are an anomaly, decades ago a surprisingly large number of major league pitchers used the knuckler. *The Knuckleball Club* is the first book to provide a comprehensive survey of the pitch and the players who used it, offering a deep understanding of how the knuckleball has fit into the fabric of the game over the past one hundred years. Anyone wanting to learn more about this unusual pitch from baseball historians and fans to current and former players will find this book an entertaining and enlightening read.

The Other Side of Here Murray Leinster, 2019-09-05 Newark, Manhattan, Baltimore: one by one they went out. A succession of thriving communities suddenly put out like a guttered flame. Men, women, children sprawled like grotesque manikins. Steve Waldron knew it couldn't be

plague There had to be some connection with the disappearance of the nation's top scientists And then he plunged to the center of a dead city and gaped at an unbelievable truth What could he do against a force fearsome enough to engulf the entire nation *The Wire* ,2005 *Murray & Nadel's Textbook of Respiratory Medicine E-Book* V. Courtney Broaddus,Joel D. Ernst,Talmadge E. King Jr,Stephen C. Lazarus,Kathleen F. Sarmiento,Lynn M. Schnapp,Renee D. Stapleton,Michael B. Gotway,2021-05-28 Known for its clear readability thorough coverage and expert authorship Murray advanced ultrasound applications and procedures interventional pulmonology immunotherapy lung cancer targeted therapy outbreaks pandemics and bioterrorism point of care ultrasound use of high flow oxygen and more Includes extensively reorganized sections on basic science pleural disease and sleep with new chapters and approaches to the topics Features more than 1 450 anatomic algorithmic and radiologic images 400 are new including CT PET MR and HRCT plus extensive online only content 200 procedural and conceptual videos plus audio clips of lung sounds Brings you up to date with the latest respiratory drugs mechanisms of action indications precautions adverse effects and recommendations with increased emphasis on algorithms to illustrate decision making Enhanced eBook version included with purchase Your enhanced eBook allows you access to all of the text figures reporting templates and references from the book on a variety of devices Broadcasting ,1949

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Telecasting ,1949 *The Telescope* ,1824 **Company Man** John Rizzo,2014-01-07 At the intersection of politics law and national security from protect us at all costs to what the hell have you guys been up to anyway A lawyer's life in the CIA Under seven presidents and 11 different CIA directors Rizzo rose to become the CIA's most powerful career attorney Given the agency's dangerous and secret mission spotting and deterring possible abuses of law offering guidance and protecting personnel from legal jeopardy was and remains no easy task The author accumulated more than 30 years of war stories and he tells most of them *A New English Dictionary on Historical Principles* James Augustus Henry Murray, Henry Bradley, Sir William Alexander Craigie, Charles Talbot Onions,1888 **A New English Dictionary on Historical Principles: part 1. A (1888)** James Augustus Henry Murray,1888 **The Philadelphia Album and Ladies' Literary Port Folio** ,1831 **The Engineer** ,1906 **The General Evening Post** ,1759 **The Pall Mall Budget** ,1875

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