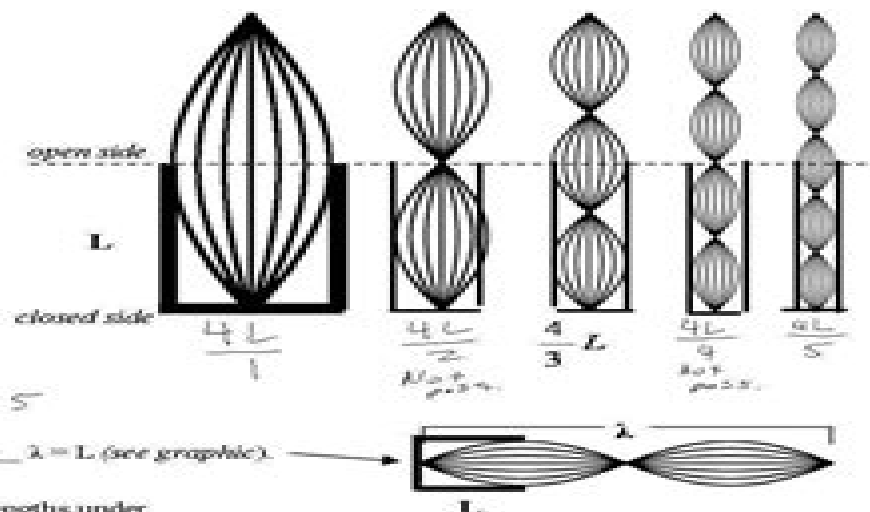


Harmonics in Closed Pipes

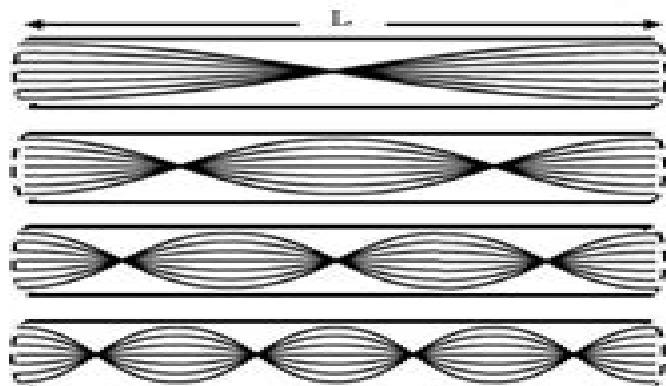
- 19) At the open end of a pipe is there a node or antinode?
 20) At the closed end of a pipe is there a node or antinode?
 So, there MUST BE a node at the closed end and the center of an antinode at the open end for the harmonic to exist.
 21) On the graphic at the right, let's pretend we have a pipe closed at one end, as shown on the fundamental. The length of the pipe is "L".
 22) Draw this same length pipe around each of the harmonics. The open end of each pipe will stop at the dotted line.
 23) Which harmonics can be produced in this pipe (which have an antinode at the open end)? 1, 3, 5
 24) So, for a pipe closed on one end (a closed pipe), give the sequence of what harmonics can be present. n can only = 1, 3, 5



- 25) Since $2AN = 1\lambda$, then the first harmonic in this diagram, $\frac{1}{4}\lambda$ $\lambda = L$ (see graphic).
 26) So $\lambda = \underline{\frac{4}{1}L}$. Write this under H_1 .
 27) Use the same process as for the first harmonic, write the wavelengths under the harmonics (even the ones that can't really exist). H_2 and H_3 should be obvious.
 28) Remembering Q7-9: there must be a pattern that includes "n" sequentially. Find it.
 29) At the right, write the equation for the wavelength of a harmonic in a closed pipe:
 30) But which "n's" are possible? 1, 3, 5...
 31) Calculate the wavelength of the third harmonic in a 60 cm long closed pipe (remember to convert to m).
 $\lambda_1 = 4L = 4(.6) = 2.4m$ $\lambda_3 = \frac{4L}{3} = \frac{2.4}{3} = .8m$

$$\lambda_{\text{closed pipe}} = \frac{4L}{n}$$

Harmonics in Open Pipes



- 32) Remembering the rule about nodes and antinodes, what must be present at the end of a pipe that is open?
 33) In order for a pipe to make a sound, it must have a standing wave in it, meaning it must have at least 1 node and 1 antinode (or more).
 34) For each successive harmonic the number of antinodes goes up by 1.
 35) For each successive harmonic the number of nodes goes up by 1.
 36) In the four open pipes at the left, draw the first four harmonics (number 1 is done for you). The nodes will be equally spaced and the center of an antinode must be at each end.
 37) On a string you count the number of AN to figure out which harmonic it is. For an open pipe, you count the number of Nodes to figure out which harmonic it is.
 38) Which harmonics can be present in an open pipe (which "n's" are present)? all of 'em

- 39) Using the same logic, figure out the sequence and give the equation for λ in an open pipe. (Hint: the drawing above will help.)

$$\lambda_{\text{open pipe}} = \frac{2L}{n}$$

$n = \text{all}$

- 40) What is the wavelength of the 3rd harmonic in a 80 cm long open pipe?

$$\lambda_1 = 1.6m$$

$$\lambda_3 = \frac{1.6}{3} = .53m$$

Sound Stephen Murray Answer Key

Michael S. Heiser



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1. Understanding the eBook Sound Stephen Murray Answer Key
 - The Rise of Digital Reading Sound Stephen Murray Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Sound Stephen Murray Answer Key
 - 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 Sound Stephen Murray Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sound Stephen Murray Answer Key
 - Personalized Recommendations
 - Sound Stephen Murray Answer Key User Reviews and Ratings
 - Sound Stephen Murray Answer Key and Bestseller Lists
5. Accessing Sound Stephen Murray Answer Key Free and Paid eBooks
 - Sound Stephen Murray Answer Key Public Domain eBooks
 - Sound Stephen Murray Answer Key eBook Subscription Services
 - Sound Stephen Murray Answer Key Budget-Friendly Options

6. Navigating Sound Stephen Murray Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Sound Stephen Murray Answer Key Compatibility with Devices
 - Sound Stephen Murray Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sound Stephen Murray Answer Key
 - Highlighting and Note-Taking Sound Stephen Murray Answer Key
 - Interactive Elements Sound Stephen Murray Answer Key
8. Staying Engaged with Sound Stephen Murray Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sound Stephen Murray Answer Key
9. Balancing eBooks and Physical Books Sound Stephen Murray Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sound Stephen Murray Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sound Stephen Murray Answer Key
 - Setting Reading Goals Sound Stephen Murray Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sound Stephen Murray Answer Key
 - Fact-Checking eBook Content of Sound Stephen Murray Answer Key
 - 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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