

Examples of Harmonics on Pipes and Strings

A closed pipe is 20 cm long. Find the wavelengths of the first 3 possible harmonics on the pipe.

closed pipe: only odds

$$\lambda_1 = 4L = 80 \text{ cm}$$
$$\lambda_3 = \frac{80}{3} \text{ cm} \quad \lambda_5 = \frac{80}{5} \text{ cm}$$

A 50 cm long open pipe first resonants (has a harmonic) at 60 Hz. Calculate the speed of sound in the pipe.

open pipe: all harm.

$$\lambda_1 = 2L = 1 \text{ m} \quad f_1 = 60 \text{ Hz}$$
$$v = f\lambda = 60 \text{ m/s}$$

Obviously, the fluid in the pipe is not air, which has a speed around 340 m/s. It must be a heavier (or slower) gas, like Sulfurhexafluoride (look it up).

The speed of sound in a pipe is 340 m/s. The pipe is open at both ends and 40 cm long. Find the first three possible frequency on this pipe.

$$\lambda_1 = 2L = .8 \text{ m} \quad v = f\lambda$$
$$f_1 = v/\lambda = \frac{340}{.8} = 425 \text{ Hz} \quad f_2 = 2f_1 = 850 \text{ Hz} \quad f_3 = 3f_1 = 1275 \text{ Hz}$$

A closed pipe has a 3rd harmonic that resonants at 330 Hz. If the speed of sound in air that day is 330 m/s, what is the length of the pipe?

$n = \text{odd's}$

$$\lambda_1 = 4L$$
$$f_3 = 330 \text{ Hz}$$
$$f_1 = 110 \text{ Hz}$$
$$\lambda_1 = 4L$$
$$v = f\lambda$$
$$330 = 110(4L)$$

A 60 cm string supports 4 "loops" when vibrated at 42 Hz. What is the speed of the wave on the string?

string: $\lambda_1 = 2L = 120 \text{ cm} = 1.2 \text{ m}$

4 loops = 4th harm. = 42 Hz

2 methods:

1) use fundamental:

$$v = \frac{42}{4}(1.2) = 12.6 \text{ m/s}$$

2) use H_4 : $\lambda_4 = \frac{\lambda_1}{4}$

$$\text{so } v = f\lambda = 42\left(\frac{1.2}{4}\right) = 12.6 \text{ m/s}$$

Harmonic Motion Stephen Murray

Siddappa N.Byrareddy



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