

















Question

40 The A string in a piano (440Hz) is 38.9 cm long and is tightly clamped at both ends. If the string is under 667 N tension what is its mass?











Question

Find the fundamental frequency of a tube 1.0 m long open at both ends. How does the frequency change when one end is closed?

Question

Find the fundamental frequency of standing wave in an aluminum rod 1.0 m long. The speed of sound in aluminum is 6400 m/s. Find the frequency of the second harmonic.

Resonance

When the driving oscillations has a frequency that matches the oscillation frequency of the standing waves in the system then a large amount of energy can be put into the system.









