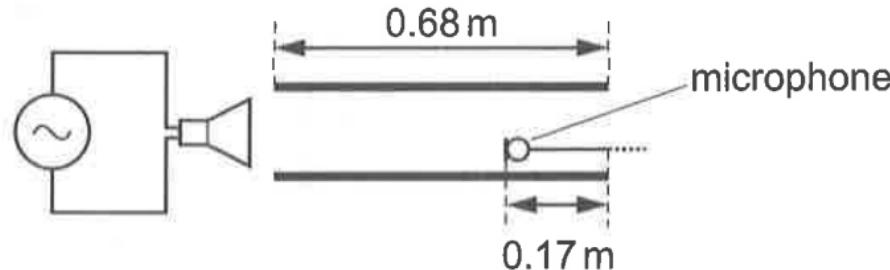


18 A stationary sound wave is formed inside an open tube of length 0.68 m.

A small microphone is inserted into the tube. It detects the first node at a distance of 0.17 m from the end. The microphone is then fixed in this position.

The speed of sound in the tube is 340 m s^{-1} .



The frequency of the signal generator is now increased until the microphone again detects a node.

What is this new frequency?

A 750 Hz

B 1000 Hz

C 1500 Hz

D 3000 Hz

19 How is electric field strength defined?