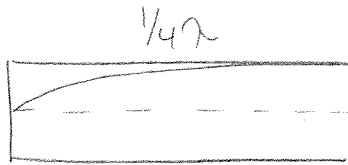


P #45

Ch 14 - pg 459

$$L = 2.8 \text{ cm} = .028 \text{ m}$$

$$v = 340 \text{ m/s}$$



For fundamental frequency: $L = \frac{1}{4}\lambda$

$$(.028 \text{ m}) = \frac{1}{4}\lambda$$

$$\lambda = .112 \text{ m}$$

$$v = f \cdot \lambda$$

$$(340 \text{ m/s}) = f \cdot (.112 \text{ m})$$

$$f = 3036 \text{ Hz}$$