

Ch. 1 Prob. 28

$$v = 2.012 \times 10^8 \text{ m/s}$$

$$c = 3.000 \times 10^8 \text{ m/s}$$

Find The index of refraction of The medium and identify The most likely medium.

~~$n = \frac{c}{v}$~~
$$n = \frac{c}{v} = \frac{3.000 \times 10^8 \text{ m/s}}{2.012 \times 10^8 \text{ m/s}}$$

$$n = 1.491$$

From table 1.1, The most likely substance is

Polystyrene