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1.11

1.11 Assume that the speed of sound, c , in a fluid depends on an elastic modulus, E_v , with dimensions FL^{-2} , and the fluid density, ρ , in the form $c = (E_v)^a(\rho)^b$. If this is to be a dimensionally homogeneous equation, what are the values for a and b ? Is your result consistent with the standard formula for the speed of sound? (See Eq. 1.19.)

$$c = (E_v)^a (\rho)^b$$

$$\text{Since } c \doteq LT^{-1} \quad E_v \doteq FL^{-2} \quad \rho = FL^{-3}T^{-2}$$

$$\left[\frac{L}{T} \right] \doteq \left[\frac{F^a}{L^{-2a}} \right] \left[\frac{F^b T^{2b}}{L^{-4b}} \right] \quad (1)$$

For a dimensionally homogeneous equation each term in the equation must have the same dimensions. Thus, the right hand side of Eq. (1) must have the dimensions of LT^{-1} . Therefore,

$$a + b = 0 \quad (\text{to eliminate } F)$$

$$2b = -1 \quad (\text{to satisfy condition on } T)$$

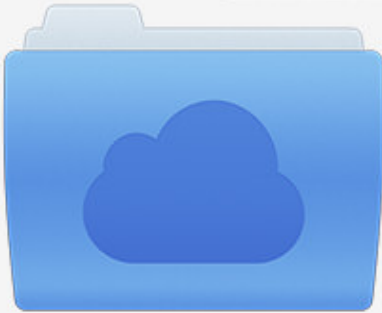
$$2a + 4b = -1 \quad (\text{to satisfy condition on } L)$$

It follows that $a = \frac{1}{2}$ and $b = -\frac{1}{2}$

So that

$$c = \sqrt{\frac{E_v}{\rho}}$$

This result is consistent with the standard formula for the speed of sound. Yes.



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