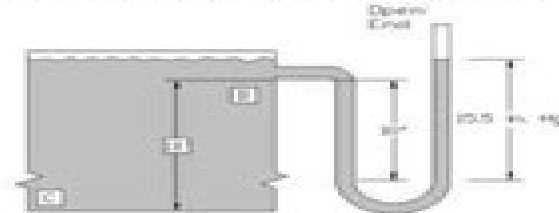


$$\begin{aligned} p_a &= p_o + \gamma_o h_o + \gamma_w h_w \\ 14.696 \text{ psia} &= 1 \text{ psia} + \gamma_w h_w \\ (13.696)(144) &= (62.4) h_w \\ h_w &= 31.61 \text{ ft} \quad (\text{answer}) \end{aligned}$$

28. As illustrated, a mercury manometer is attached to the side of a nearly full water tank.



Problem 28

The reading of the mercury column is 15.5 in. Hg gage. Although air on the water maintains the pressure, the other 10-in. leg of the manometer is full of water; for H_2O , $\rho = 62.3 \text{ lb/ft}^3$; for Hg, $\rho = 846 \text{ lb/ft}^3$. If the location is at standard gravity and the temperature of both the water and mercury is 60 F, what is the pressure (psia) in the tank at the level where the manometer is attached? If the tank extends 10 ft below this level, what is the pressure at this depth?

Solution:

$$\begin{aligned} p_a &= p_o + \gamma_w h_w - \gamma_w h_w \\ p_a &= p_o + \frac{\rho_w g}{k} h_w - \frac{\rho_w g}{k} h_w \\ p_a &= 14.696 + \frac{(846)(1)(15.5/12)}{144} - \frac{(62.3)(1)(10/12)}{144} \\ p_a &= 21.924 \text{ psia} \quad (\text{answer}) \end{aligned}$$

At the bottom

$$\begin{aligned} p_c &= p_a + \frac{\rho_w g}{k} h \\ p_c &= 21.924 + \frac{(62.3)(1)(10)}{144} \\ p_c &= 26.25 \text{ psia} \quad (\text{answer}) \end{aligned}$$

29. A 30-m vertical column of fluid (density 1878 kg/m^3) is located where $g = 9.65 \text{ mps}^2$. Find the pressure at the base of the column.

Solution:

$$p = \frac{\rho g}{k} h$$

Thermodynamics 6th By Faires Solution Manual

Jianjun Gao



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