

$$\begin{aligned}
 \text{(a)} \quad BF &= \rho V \omega^2 r = \left( 62.3 \frac{\text{lbm}}{\text{ft}^3} \right) (0.01 \text{ in}^3) \left( \frac{2\pi \cdot 1000}{\text{min}} \cdot \frac{\text{min}}{60 \text{ s}} \right)^2 (1.5 \text{ in}) \frac{\text{lb f s}^2}{32.17 \text{ lbm ft}} \cdot \left( \frac{\text{ft}^2}{144 \text{ in}^2} \right)^2 \\
 &= 0.153 \text{ lb f} = 0.683 \text{ N}
 \end{aligned}$$

(b) This points toward the axis of rotation.

**2.73** See the sketch at the right. Work in gage pressure.

$$P_1 = 0$$

$$P_2 = P_1 + \rho g (h_2 - h_1)$$

$$P_3 = P_2 + \frac{\rho \omega^2}{2} (r_3^2 - r_2^2)$$

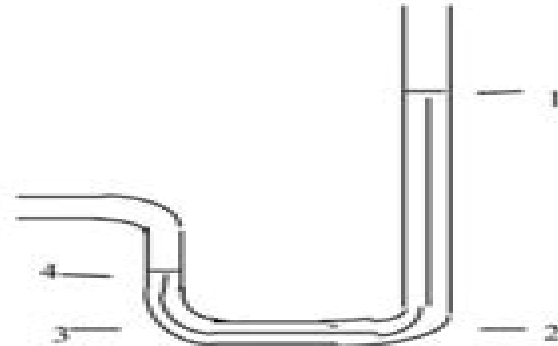
$$P_4 = P_3 + \rho g (h_4 - h_3)$$

Adding these and canceling like terms

$$P_4 = \rho \left[ g(h_4 - h_1) + \frac{\omega^2}{2} (r_3^2 - r_2^2) \right]$$

$$\omega = \frac{2\pi \cdot 10}{60 \text{ s}} = 1.0472 \frac{1}{\text{s}}$$

$$\begin{aligned}
 P_4 &= 62.3 \frac{\text{lbm}}{\text{ft}^3} \left[ 32.2 \frac{\text{ft}}{\text{s}^2} \cdot 4 \text{ ft} + \frac{1}{2} \cdot \left( \frac{1.0472}{\text{s}} \right)^2 \cdot ((22 \text{ ft})^2 - (24 \text{ ft})^2) \right] \cdot \frac{\text{lb f s}^2}{32.2 \text{ lbm ft}} \cdot \frac{\text{ft}^2}{144 \text{ in}^2} \\
 &= 62.3 \cdot [128.8 - 50.44] \frac{1}{32.2 \cdot 144} = 1.053 \text{ psig} = 7.26 \text{ kPa gauge}
 \end{aligned}$$



**2.74** The gasoline-air interface is a parabola, as shown in example 2.19. Using the sketch at the right, we compute the pressure at C, two ways, finding

By path DBC

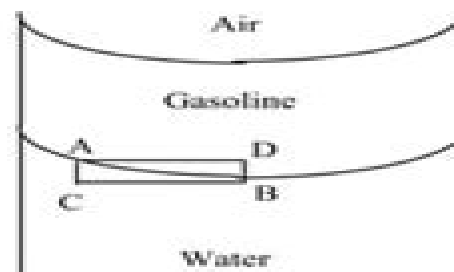
$$P_C = P_D + \rho_{\text{gasoline}} g \Delta z + \rho_{\text{water}} \frac{\omega^2}{2} (\Delta r)^2$$

By path DAC

$$P_C = P_D + \rho_{\text{gasoline}} \frac{\omega^2}{2} (\Delta r)^2 + \rho_{\text{water}} g \Delta z$$

Subtracting the second from the first

$$0 = (\rho_{\text{water}} - \rho_{\text{gasoline}}) \frac{\omega^2}{2} (\Delta r)^2 - (\rho_{\text{water}} - \rho_{\text{gasoline}}) g \Delta z$$



# Fluid Mechanics For Chemical Engineers Solution

**Lyle Albright**



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