

2-44 The homogeneous gate shown in Fig. P2-44 consists of one quarter of a circular cylinder with a weight suspended a vertical height of 4 m. The 4 m value is measured from the top of the gate where it is hinged and the hinge is at the center of the cylinder. Determine the weight of the gate per meter of length.

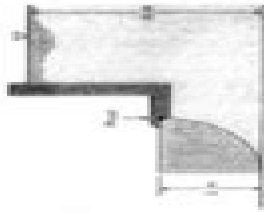
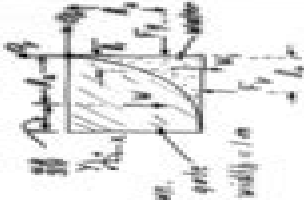


FIGURE P2-44



Consider the free body diagram of the gate and a portion of the water section.

$$\sum M_H = 0, \text{ or}$$

$$(1) \quad L_2 W + L_1 W_1 - F_H L_1 - F_V L_2 = 0, \text{ where}$$

$$(2) \quad F_H = \rho g L_2 h_c = 9.81 \times 10^3 \left(\frac{\pi}{4} (4 \text{ m})^2 (1 \text{ m}) \right) (1 \text{ m}) = 309.3 \text{ kN}$$

since for the vertical slice, $h_c = h/2 = 0.5 \text{ m} = 0.5 \text{ m} = 0.5 \text{ m}$

Also,

$$(3) \quad F_V = \rho g L_1 h_c = 9.81 \times 10^3 \left(\frac{\pi}{4} (4 \text{ m})^2 (1 \text{ m}) \right) (1 \text{ m}) = 309.3 \text{ kN}$$

Also,

$$(4) \quad W_1 = \rho g (1 \text{ m})^3 = 9.81 (1000) (1 \text{ m}) = 9.81 \times 10^3 \left(1 - \frac{\pi}{4} \right) (4 \text{ m})^2 = 2.10 \text{ MN}$$

$$(5) \quad \text{Now, } L_2 = 0.5 \text{ m and}$$

$$(6) \quad L_1 = 0.5 \text{ m} + \left(\frac{\pi}{4} \times 4 \right) = 0.5 \text{ m} + \frac{5\pi}{4} = 0.5 \text{ m} + \frac{4(1 \text{ m}) (\pi/4)}{2.0 \text{ m} (2 \text{ m})} = 0.539 \text{ m}$$

$$(7) \quad \text{and } L_2 = 1 \text{ m} - \frac{4\pi}{4} = 1 - \frac{\pi}{4} = 0.214 \text{ m}$$

To determine L_1 , consider a unit square that consists of a quarter circle and the remainder as shown in the figure. The centroids of areas $\textcircled{1}$ and $\textcircled{2}$ are as indicated.

Thus,

$$\left(0.5 - \frac{\pi}{4} \right) L_2 = (0.5 - L_1) L_1$$

(cont.)

2-45 A 3-m-long curved gate is located in the side of a reservoir containing water as shown in Fig. P2-45. Determine the magnitude of the horizontal and vertical components of the force of the water on the gate. Will this force pass through point A? Explain.

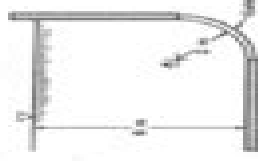


FIGURE P2-45

For equilibrium,

$$\sum F_H = 0$$

$$\Rightarrow F_H + F_1 = \gamma h_{c1} A_1 + \gamma (h_{c2} - h_{c1}) A_2$$

$$F_H = \gamma h_{c1} A_1 + \gamma (h_{c2} - h_{c1}) A_2 = 219.4 \text{ kN}$$

$$\sum M_A = 0$$

$$\sum F_V = 0$$

$$F_V = F_1 + A_2 \quad \text{where:}$$

$$F_1 = \gamma \left(\frac{\pi}{4} (4 \text{ m})^2 (3 \text{ m}) \right) = \left(9.81 \frac{\text{kN}}{\text{m}^3} \right) (16 \text{ m}^3)$$

$$A_2 = \gamma \left(\frac{\pi}{4} (4 \text{ m})^2 (3 \text{ m}) \right) = 122.4 \text{ kN}$$

$$\text{Thus, } F_V = \left(9.81 \frac{\text{kN}}{\text{m}^3} \right) \left[16 \text{ m}^3 + 16 \text{ m}^3 \right] = 322.4 \text{ kN}$$

(Note: Force of water on gate will be opposite in direction.)
That force is correct.

The direction of all differential forces acting on the curved surface is perpendicular to surface and therefore, the resultant must pass through the intersection of all these forces which is at point A. Yes.

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