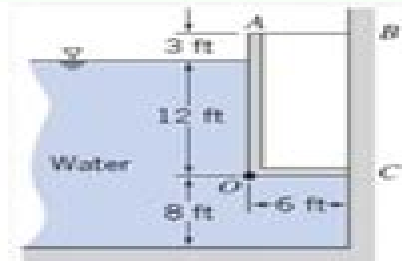


Problem 3.64

[Difficulty: 3]

3.64 The gate AOC shown is 6 ft wide and is hinged along O . Neglecting the weight of the gate, determine the force in bar AB . The gate is sealed at C .



Given: Gate AOC , hinged along O , has known width;
Weight of gate may be neglected, Gate is sealed at C ,
 $b = 6$ -ft

Find: Force in bar AB

Solution: We will apply the hydrostatics equations to this system.

Governing Equations: $\frac{dp}{dh} = \rho \cdot g$ (Hydrostatic Pressure - h is positive downwards)
 $F_R = p_c \cdot A$ (Hydrostatic Force)
 $y' = y_c + \frac{I_{xx}}{A \cdot y_c}$ (Location of line of action)
 $\Sigma M_x = 0$ (Rotational equilibrium)

Assumptions: (1) Static fluid
 (2) Incompressible fluid
 (3) Atmospheric pressure acts at free surface of water and on outside of gate
 (4) No resisting moment in hinge at O
 (5) No vertical resisting force at C

Integrating the hydrostatic pressure equation: $p = \rho \cdot g \cdot h$

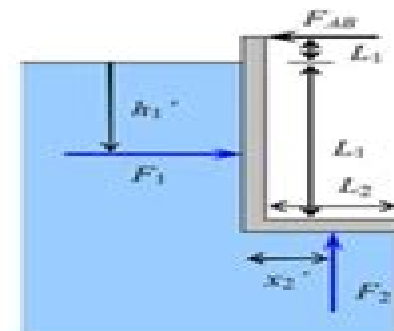
The free body diagram of the gate is shown here:

F_1 is the resultant of the distributed force on AO
 F_2 is the resultant of the distributed force on OC
 F_{AB} is the force of the bar
 C_x is the sealing force at C

First find the force on AO : $F_1 = p_c \cdot A_1 = \rho \cdot g \cdot h_{c1} \cdot b \cdot L_1$

$$F_1 = 1.94 \frac{\text{slug}}{\text{ft}^3} \times 32.2 \frac{\text{ft}}{\text{s}^2} \times 6 \text{ ft} \times 6 \text{ ft} \times 12 \text{ ft} \times \frac{\text{lb} \cdot \text{s}^2}{\text{slug} \cdot \text{ft}}$$

$$F_1 = 27.0 \text{ kip}$$



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Lingjun Ying



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