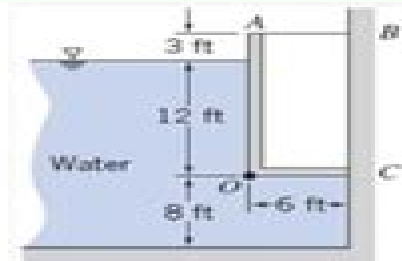


### Problem 3.64

[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:  $p = \rho \cdot g \cdot h$

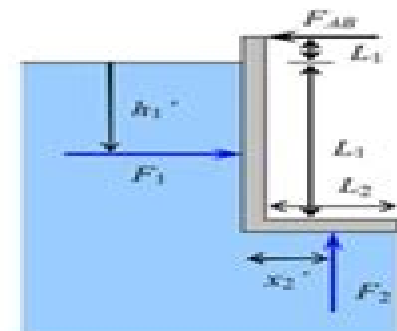
The free body diagram of the gate is shown here:

$F_1$  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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