

PROBLEM 1.17

$r = 30 \text{ in}$   
 $h = 12 \text{ in}$   
 $\rho = 62.5 \text{ lb/ft}^3$   
 $W_{\text{tank}} = 1728 \text{ lb}$   
 $W = 62.5 \text{ lb/ft}^3 V$

The mass of water is  $m = \rho V$ , where  $V$  is the volume of the spherical tank. Thus

$$V = \frac{4}{3} \pi r^3 - \left( \frac{4}{3} \pi (r-h)^3 + \pi (r-h)^2 h \right)$$

and the mass is

$$m = \rho V = 62.5 \left( \frac{4}{3} \pi (30)^3 - \left( \frac{4}{3} \pi (18)^3 + \pi (18)^2 (12) \right) \right)$$

$$= 7.20 \times 10^5 \text{ lb}_m$$

The weight is

$$W = mg = (7.20 \times 10^5 \text{ lb}_m) \left( \frac{32.2 \text{ ft/s}^2}{32.2 \text{ lb}_m/\text{lb}_f} \right)$$

$$= 2.30 \times 10^6 \text{ lb}_f$$

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