PROBLEM 1-3:

A container holds two layers of different liquids, one having specific gravity of 1.2 and the other having a specific gravity of 1.5. A solid spherical metal having a diameter of 200 mm and specific gravity of 7.4 is submerged in such a manner that half of the sphere is on the top layer and the other half in the bottom layer of liquid.

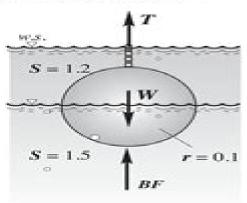
- ① Evaluate the buoyant force acting on the sphere, in kN.
- ② Determine the tension in the cable attached to the sphere to normal position, in kN.
- If both liquids are water, evaluate the buoyant force acting on the sphere, in kN.

Solution:

Buoyant force acting on the sphere

BF =
$$9.81(1.2) \left[\frac{2}{3} \pi (0.1)^3 \right] + 9.81(1.5) \left[\frac{2}{3} \pi (0.1)^3 \right]$$

BF = $0.055 \, kN$



② Tension in the cable attached to the sphere to normal position

$$T + BF = W$$

T = 7.4(9.81)
$$\left[\frac{4}{3} \pi (0.1)^3\right]$$
 - 0.055

$$T = 0.249 kN$$

3 Buoyant force acting on the sphere if both liquids are water

BF = 9.81
$$\left[\frac{4}{3}\pi (0.1)^3\right] = 0.0411 \, kN$$

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