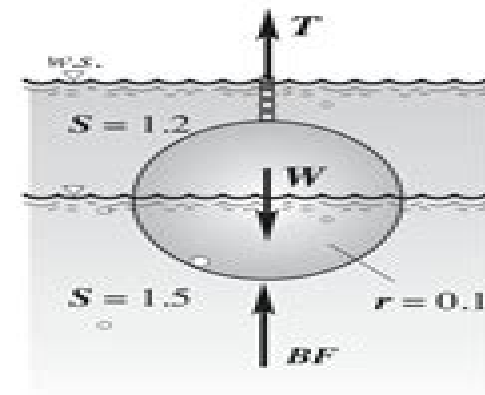


PROBLEM 1-3:

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 in 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.
- ③ If both liquids are water, evaluate the buoyant force acting on the sphere, in kN.

**Solution:**

- ① Buoyant force acting on the sphere

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

$$BF = 0.055 \text{ kN}$$

- ② Tension in the cable attached to the sphere to normal position
 $T + BF = W$

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

$$T = 0.249 \text{ kN}$$

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

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

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**Eugene Spangenberg, Albert
Uhl, Edward William Pratt**



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