

2 A sphere is attached by a metal wire to the horizontal surface at the bottom of a river, as shown in Fig. 2.1.

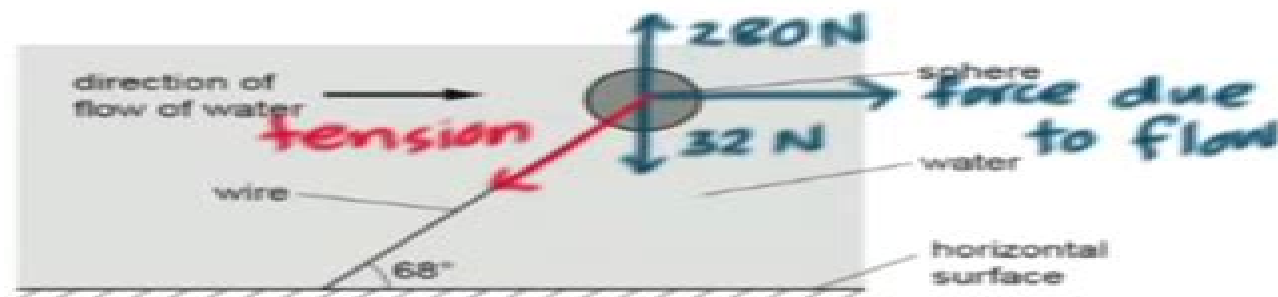


Fig. 2.1 (not to scale)

The sphere is fully submerged and in equilibrium, with the wire at an angle of  $68^\circ$  to the horizontal surface. The weight of the sphere is  $32 \text{ N}$ . The upthrust acting on the sphere is  $280 \text{ N}$ . The density of the water is  $1.0 \times 10^3 \text{ kg m}^{-3}$ .

Assume that the force on the sphere due to the water flow is in a horizontal direction.

- (a) By considering the components of force in the vertical direction, determine the tension in the wire.

--- in equilibrium, so

$$280 = T_y + 32$$

$$248 = T \sin 68^\circ$$

$$T = \frac{248}{\sin 68^\circ}$$

tension = 270 N [2]

- (b) For the sphere, calculate:

- (i) the volume

$$F_B = 280 \text{ N}$$

$$F_B = \rho V g$$

---  $V = \frac{280 \text{ N}}{\rho g}$

volume = 0.029  $\text{m}^3$  [1]

- (ii) the density.

$$\rho = \frac{m}{V} = \frac{w/g}{V} = \frac{(32/9.81)}{0.029}$$

density = 110  $\text{kg m}^{-3}$  [2]

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