

### Correction

**Q1 b. Calculate stress if a load of 10 N is attached to the lower end of the wire of radius 1mm.**

### Formula

### Answer with unit

Given:

$$F = 10 \text{ N}$$

$$r = 1 \times 10^{-3} \text{ m}$$

$$\text{Stress} = F / \text{area} = F / \pi r^2$$

$$\text{Stress} = 10 / 3.14 \times (1 \times 10^{-3})^2$$

$$\text{Stress} = 3.18 \times 10^6 \text{ N/m}^2$$

Required:

$$\text{Stress} = ?$$

Q 3 c)

$$\text{At } \delta = \delta_m$$

$$r_1 = r_2 = r$$

$$i = e ,$$