

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Exercises)

(Class 11)

Question 9.8:

A piece of copper having a rectangular cross-section of $15.2 \text{ mm} \times 19.1 \text{ mm}$ is pulled in tension with $44,500 \text{ N}$ force, producing only elastic deformation. Calculate the resulting strain?

Answer 9.8:

Length of the piece of copper, $l = 19.1 \text{ mm} = 19.1 \times 10^{-3} \text{ m}$

Breadth of the piece of copper, $b = 15.2 \text{ mm} = 15.2 \times 10^{-3} \text{ m}$

Area of the copper piece: $A = l \times b = 19.1 \times 10^{-3} \times 15.2 \times 10^{-3} = 2.9 \times 10^{-4} \text{ m}^2$

Tension force applied on the piece of copper, $F = 44500 \text{ N}$

Modulus of elasticity of copper, $\eta = 42 \times 10^9 \text{ N/m}^2$

Modulus of elasticity, $\eta = \frac{\text{Stress}}{\text{Strains}} = \frac{F}{A \times \text{Strain}}$

$$\therefore \text{Strains} = \frac{F}{A\eta} = \frac{44500}{2.9 \times 10^{-4} \times 42 \times 10^9} = 3.65 \times 10^{-3}$$

Question 9.9:

A steel cable with a radius of 1.5 cm supports a chairlift at a ski area. If the maximum stress is not to exceed 10^8 N m^{-2} , what is the maximum load the cable can support?

Answer 9.9:

Radius of the steel cable, $r = 1.5 \text{ cm} = 0.015 \text{ m}$ and Maximum allowable stress = 10^8 Nm^{-2}

Maximum stress = $\frac{\text{Maximum force}}{\text{Area of cross-section}}$

\therefore Maximum force = Maximum stress \times Area of cross-section = $10^8 \times \pi(0.015)^2 = 7.065 \times 10^4 \text{ N}$

Hence, the cable can support the maximum load of $7.065 \times 10^4 \text{ N}$.

Question 9.10:

A rigid bar of mass 15 kg is supported symmetrically by three wires each 2.0 m long. Those at each end are of copper and the middle one is of iron. Determine the ratios of their diameters if each is to have the same tension.

Answer 9.10:

The tension force acting on each wire is the same. Thus, the extension in each case is the same. Since the wires are of the same length, the strain will also be the same. The relation for Young's modulus is given as:

$$Y = \frac{\text{Stress}}{\text{Strain}} = \frac{F}{A} = \frac{4F}{\pi d^2} \quad \text{---(i)}$$

d = Diameter of the wire

It can be inferred from equation (i) that $Y \propto \frac{1}{d^2}$

Young's modulus for iron, $Y_1 = 190 \times 10^9 \text{ Pa}$ and Diameter of the iron wire = d_1

Young's modulus for copper, $Y_2 = 110 \times 10^9 \text{ Pa}$ and Diameter of the copper wire = d_2

Therefore, the ratio of their diameters is given as:

$$\frac{d_2}{d_1} = \sqrt{\frac{Y_1}{Y_2}} = \sqrt{\frac{190 \times 10^9}{110 \times 10^9}} = \sqrt{\frac{19}{11}} = 1.31:1$$

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