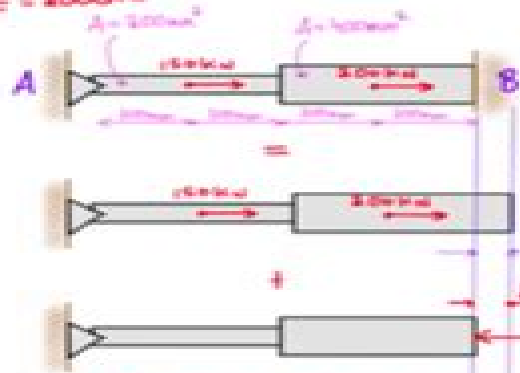


13. Find the reactions of a statically indeterminate member with varying cross section

$$E = 200 \text{ GPa}$$



$$\sum F_x = R_A + R_B + 350 \text{ kN} = 0$$

$$\delta = \sum \frac{P_i L_i}{A_i E} = 0 + \frac{200 \text{ kN} \cdot 200 \text{ mm}}{200 \text{ mm}^2 \cdot 200 \text{ GPa}} + \frac{200 \text{ kN} \cdot 200 \text{ mm}}{400 \text{ mm}^2 \cdot 200 \text{ GPa}} + \frac{350 \text{ kN} \cdot 200 \text{ mm}}{800 \text{ mm}^2 \cdot 200 \text{ GPa}}$$

$$= 0 + 0.25 \text{ mm} + 0.5 \text{ mm} + 0.875 \text{ mm}$$

$$\delta = 1.625 \text{ mm}$$

$$\delta = \delta_B = 1.625 \text{ mm} = \sum \frac{P_i L_i}{A_i E}$$

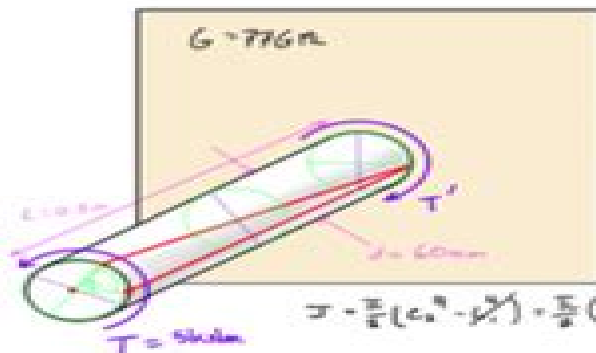
$$1.625 = \frac{R_B \cdot 200 \text{ mm}}{200 \text{ mm}^2 \cdot 200 \text{ GPa}} + \frac{R_B \cdot 200 \text{ mm}}{400 \text{ mm}^2 \cdot 200 \text{ GPa}} \rightarrow 400(1.625) \text{ kN} = R_B + 2 R_B$$

$$\frac{400(1.625)}{3} = R_B = 216.67 \text{ kN}$$

$$R_A = 133.33 \text{ kN}$$

Torsion

14. Torques and angle of twist



Angle of twist = $\phi = \frac{T L}{J G} = \sum \frac{T_i L_i}{J_i G_i}$

Internal torque (Nm) \rightarrow Length (m)

cross section's polar moment of inertia (m⁴) \rightarrow Modulus of Rigidity (GPa)

$$J = \frac{\pi}{32} (d_o^4 - d_i^4) = \frac{\pi}{32} (0.03 \text{ m})^4 = 1.272 \times 10^{-6} \text{ m}^4$$



$$\phi = \frac{5 \text{ kNm} \cdot 0.5 \text{ m}}{1.272 \times 10^{-6} \text{ m}^4 \cdot 77.6 \text{ GPa}} = \frac{5 \times 10^3 \text{ Nm} \cdot 0.5}{1.272 \times 10^{-6} \text{ m}^4 \cdot 77 \times 10^9 \text{ N/m}^2} = \frac{5 \cdot 0.5}{1.272 \cdot 77} = 0.0255 \text{ rad} = \phi$$

$$\phi = 0.0255 \text{ rad} \left(\frac{180}{\pi \text{ rad}} \right) = 1.46^\circ$$

Elements Of Mechanics Of Materials

H Kauffman



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