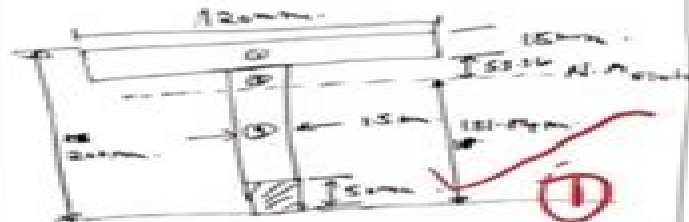


EMG 4103 Solid and Structural Mechanics III Assignment Two Marking Scheme

Assignment 2

Plastic deformation



$$\sigma_y = 240 \text{ MPa}$$

Soln:

1st Find $\bar{y}$ from elastic N.A and then find I_{xx} .

$$\bar{y} = \frac{0(185 \times 15 \times 92.5) + (120 \times 15 \times 192.5)}{(185 \times 15) + (120 \times 15)} = \frac{0 + 364500}{2775 + 1800} = \frac{364500}{4575} = 79.69 \text{ mm}$$

$$I_{xx(1)} = \frac{120 \times 15^3}{12} + 1800(192.5 - 130.5)^2 = 6.6571 \times 10^{-6} \text{ m}^4$$

$$I_{xx(2)} = \frac{15 \times 32.16^3}{12} + (120 \times 15) \times (150.5 - 131.5)^2 = 0.7511 \times 10^{-6} \text{ m}^4$$

$$I_{xx(3)} = \left[\frac{181.84^3 \times 15}{12} + (120 \times 15 \times 15) \times \left(\frac{1}{2} \times 181.84 - \frac{1}{2} \times 181.84 \right)^2 \right] + (120 \times 15 \times 15) \times (131.5 - 92.5)^2 = 2.9949 \times 10^{-6} \text{ m}^4$$

$$I_{xx} = (1) + (2) + (3) = 10.4031 \times 10^{-6} \text{ m}^4$$

$$M_p = \frac{\sigma_y I_{xx}}{\bar{y}_{max}} = \frac{240 \times 10^6 \times 10.4031 \times 10^{-6}}{131.84 \times 10^{-3}} = 1.8907 \times 10^5 \text{ Nmm}$$

Plastic neutral axis $\bar{y}_p$

$$\bar{y}_p \times 15 = \frac{1}{2} [2775 + 1800]$$

$$\bar{y}_p = \frac{2287.5}{15} = 152.5 \text{ mm}$$



$$M_{fp} = \left[\sigma_y (120 \times 15) \times (67.5 - 7.5) + \sigma_y (12.5 \times 15) \times \left(\frac{32.5}{2} + 55 \right) + (152.5 \times 15) \times \left(\frac{181.84}{2} \right) \right] \times 10^{-3} = 2.5434 \times 10^5 \text{ Nmm}$$

$$\text{Reduction} = \frac{M_{fp}}{M_p} = \frac{2.5434 \times 10^5}{1.8907 \times 10^5} = 1.345$$

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