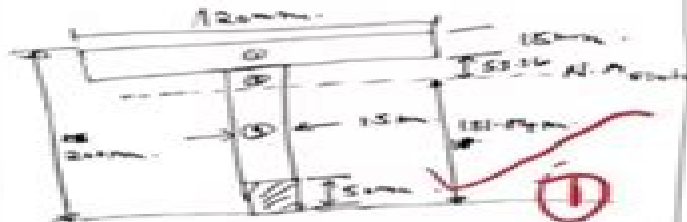


EMG 4103 Solid and Structural Mechanics III Assignment Two Marking Scheme

Assignment 2

Plastic deformation



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

Soln:

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

$$\bar{y} = \frac{181 \times 15 \times 90.5 + (120 \times 15 \times 192.5)}{(181 \times 15) + (120 \times 15)} \\ = \frac{256687.5 + 364500}{2775 + 1800} = \frac{621187.5}{4575} \\ \bar{y} = 135.84 \text{ mm}$$

$$I_{xx①} = \frac{120 \times 15^3}{12} + 1800 (192.5 - 135.84)^2 \\ = 6.6571 \times 10^{-6} \text{ m}^4$$

$$I_{xx②} = \frac{15 \times 32.16^3}{12} + (120 \times 15) \times \left(\frac{181}{2} - 135.84 \right)^2 \\ = 0.7511 \times 10^{-6} \text{ m}^4$$

$$I_{xx③} = \left[\frac{181 \times 15^3}{12} + (120 \times 15) \times \left(\frac{181}{2} - 135.84 \right)^2 \right] + \left[\frac{15 \times 120.16^3}{12} + (181 \times 15) \times \left(\frac{120.16}{2} - 135.84 \right)^2 \right] \\ = 2.9949 \times 10^{-6} \text{ m}^4$$

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

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

Plastic neutral axis \bar{y}_p

$$\bar{y}_p \times 15 = \frac{1}{2} [2775 + 1800] \\ \bar{y}_p = \frac{2287.5}{15} = 152.5 \text{ mm}$$



$$M_{fp} = \left[\sigma_y \cdot (120 \times 15) \times \left(\frac{120.16}{2} - 152.5 \right) + \sigma_y \cdot (15 \times 32.16) \times \left(\frac{32.16}{2} + 152.5 \right) \right] \times 10^{-6} \\ = \sigma_y \cdot [72000 + 7921.875 + 1744 + 21.875] \times 10^{-6} \\ = 2.5434 \times 10^5 \text{ Nmm}$$

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

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H Kauffman



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