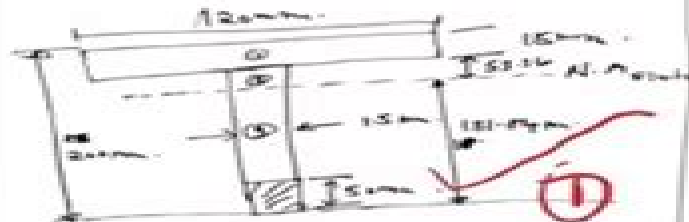


# EMG 4103 Solid and Structural Mechanics III Assignment Two Marking Scheme

## Assignment 2

Plastic deformation



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

Soln:

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

$$\bar{y} = \frac{(185 \times 15 \times 92.5) + (120 \times 15 \times 192.5)}{(185 \times 15) + (120 \times 15)} = \frac{256687.5 + 346500}{2775 + 1800} = \frac{603187.5}{4575} = 131.84 \text{ mm}$$

$$I_{xx①} = \frac{120 \times 15^3}{12} + 1800(192.5 - 131.84)^2 = 6.6571 \times 10^{-6} \text{ m}^4$$

$$I_{xx②} = \frac{15 \times 32.16^3}{12} + (120 \times 15) \times \left( \frac{181}{2} - 131.84 \right)^2 = 0.7511 \times 10^{-6} \text{ m}^4$$

$$I_{xx③} = \left[ \frac{181 \times 15^3}{12} + (120 \times 15) \times \left( \frac{181}{2} - 131.84 \right)^2 \right] + \left[ \frac{15 \times 120^3}{12} + (181 \times 15) \times \left( 131.84 - \frac{1}{2}(181) \right)^2 \right] = 2.9949 \times 10^{-6} \text{ m}^4$$

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

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

Plastic neutral axis  $\bar{y}_p$

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

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



$$M_{fp} = \left[ \sigma_y \cdot (120 \times 15) \times \left( \frac{1}{2}(192.5 - 152.5) + 152.5 \right) + \sigma_y \cdot (15 \times 15) \times \left( \frac{1}{2}(152.5 - 15) + 152.5 \right) \right] \times 10^{-3} = 2.5434 \times 10^5 \text{ Nmm}$$

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

# Mechanics Marking Scheme 2019 74may June

**Y Pai**



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