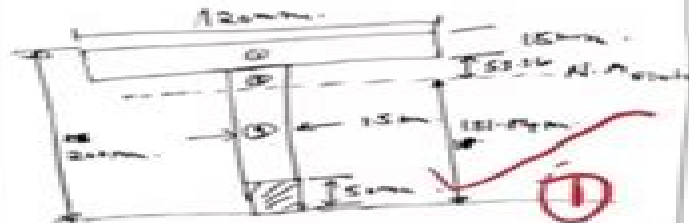


# EMG 4103 Solid and Structural Mechanics III Assignment Two Marking Scheme

## Assignment 2

Plastic deformation



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

Soln:

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

$$\begin{aligned} \bar{y} &= \frac{(185 \times 15 \times 92.5) + (120 \times 15 \times 192.5)}{(185 \times 15) + (120 \times 15)} \\ &= \frac{256687.5 + 348750}{2775 + 1800} = \frac{605437.5}{4575} \\ \bar{y} &= 131.84 \text{ mm} \end{aligned}$$

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

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

$$\begin{aligned} I_{xx3} &= \left[ \frac{181.84^3 \times 15}{12} + (181.84 \times 15) \times \left( \frac{181.84}{2} - 131.84 \right)^2 \right] + \left[ \frac{15 \times 131.84^3}{12} + (15 \times 131.84) \times \left( \frac{15 \times 131.84}{2} - 131.84 \right)^2 \right] \\ &= 2.9949 \times 10^{-6} \text{ m}^4 \end{aligned}$$

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

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

Plastic neutral axis  $\bar{y}_p$

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



$$\begin{aligned} M_{fp} &= \left[ \sigma_y \cdot (120 \times 15) \times \left( \frac{120 \times 15}{2} - 152.5 \right) + \sigma_y \cdot (15 \times 32.16) \times \left( \frac{15 \times 32.16}{2} - 152.5 \right) + \sigma_y \cdot (152.5 \times 15) \times \left( \frac{152.5 \times 15}{2} - 152.5 \right) \right] \times 10^{-6} \\ &= \sigma_y \cdot [72000 + 7921.875 + 17444.25] \times 10^{-6} \\ &= 2.5434 \times 10^5 \text{ N} \end{aligned}$$

$$\begin{aligned} \text{Factor} &= \frac{M_{fp}}{M_p} = \frac{2.5434 \times 10^5}{1.8907 \times 10^5} = 1.345 \end{aligned}$$

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**Yi-Tong Ma**



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