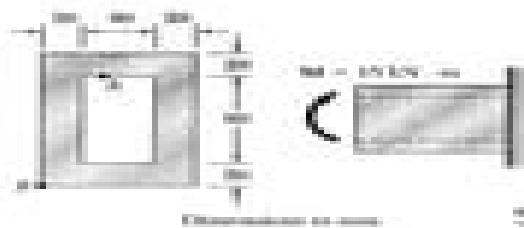


### Problem 4.1



4.1 and 4.2 Knowing that the couple shown acts in a vertical plane, determine the stress at (a) point A, (b) point B.

For rectangle,  $I = \frac{1}{12} bh^3$

Outside rectangle:  $I_1 = \frac{1}{12} (120)(120)^3$

$I_1 = 11.52 \times 10^6 \text{ mm}^4 = 11.52 \times 10^{-6} \text{ m}^4$

Cutout:  $I_2 = \frac{1}{12} (80)(80)^3$

$I_2 = 1.70667 \times 10^6 \text{ mm}^4 = 1.70667 \times 10^{-6} \text{ m}^4$

Section:  $I = I_1 - I_2 = 9.81333 \times 10^{-6} \text{ m}^4$

(a)  $y_A = 40 \text{ mm} = 0.040 \text{ m}$

$\sigma_A = -\frac{My_A}{I} = -\frac{(15 \times 10^3)(0.040)}{9.81333 \times 10^{-6}} = -61.6 \times 10^6 \text{ Pa}$

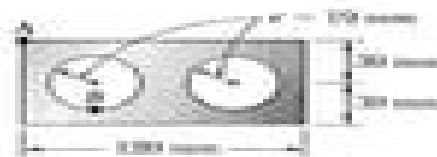
$\sigma_A = -61.6 \text{ MPa}$

(b)  $y_B = -60 \text{ mm} = -0.060 \text{ m}$

$\sigma_B = -\frac{My_B}{I} = -\frac{(15 \times 10^3)(-0.060)}{9.81333 \times 10^{-6}} = 91.7 \times 10^6 \text{ Pa}$

$\sigma_B = 91.7 \text{ MPa}$

### Problem 4.2



4.1 and 4.2 Knowing that the couple shown acts in a vertical plane, determine the stress at (a) point A, (b) point B.

$M = 2 \text{ kN} \cdot \text{m}$

For the solid rectangle,

$I_1 = \frac{1}{12} bh^3 = \frac{1}{12} (120)(40)^3$   
 $= 2.56 \times 10^{-4} \text{ m}^4$

For one circular cutout,  $I_2 = \frac{\pi}{4} r^4 = \frac{\pi}{4} (19)^4$   
 $= 1.0209 \times 10^{-4} \text{ m}^4$

For the section,  $I = I_1 - 2I_2 = 2.56 \times 10^{-4} - (2)(1.0209 \times 10^{-4}) = 4.3682 \times 10^{-5} \text{ m}^4$

(a)  $y_A = 0.02 \text{ m}$   $\sigma_A = -\frac{My_A}{I} = -\frac{(2000)(0.02)}{4.3682 \times 10^{-5}} = -92.15 \text{ MPa}$

$\sigma_A = -92.15 \text{ MPa}$

(b)  $y_B = 0.0175 \text{ m}$   $\sigma_B = -\frac{My_B}{I} = -\frac{(2000)(0.0175)}{4.3682 \times 10^{-5}} = 79.44 \text{ MPa}$

$\sigma_B = 79.4 \text{ MPa}$

# Mechanics Of Materials Solutions Beer 5th

**Katrin Zwirgmaier**



## **Mechanics Of Materials Solutions Beer 5th:**

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