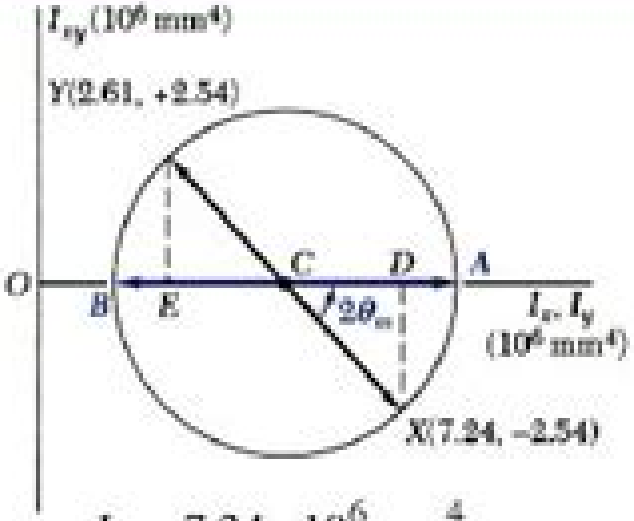
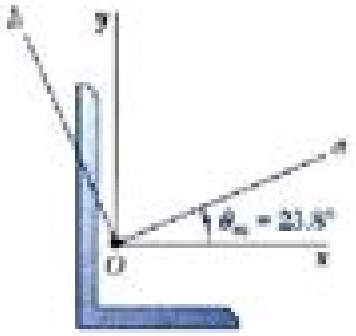
Sample Problem 9.8



$$I_x = 7.24 \times 10^6 \text{ mm}^4$$

$$I_y = 2.61 \times 10^6 \text{ mm}^4$$

$$I_{xy} = -2.54 \times 10^6 \text{ mm}^4$$



SOLUTION:

- **Plot the points (I_x, I_{xy}) and $(I_y, -I_{xy})$. Construct Mohr's circle based on the circle diameter between the points.**

$$OC = I_{ave} = \tfrac{1}{2}(I_x + I_y) = 4.925 \times 10^6 \text{ mm}^4$$

$$CD = \tfrac{1}{2}(I_x - I_y) = 2.315 \times 10^6 \text{ mm}^4$$

$$R = \sqrt{(CD)^2 + (DX)^2} = 3.437 \times 10^6 \text{ mm}^4$$

- **Based on the circle, determine the orientation of the principal axes and the principal moments of inertia.**

$$\tan 2\theta_m = \frac{DX}{CD} = 1.097 \qquad 2\theta_m = 47.6° \qquad \theta_m = 23.8°$$

$$I_{\max} = OA = I_{ave} + R \qquad I_{\max} = 8.36 \times 10^6 \text{ mm}^4$$

$$I_{\min} = OB = I_{ave} - R \qquad I_{\min} = 1.49 \times 10^6 \text{ mm}^4$$

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