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the moment of inertia for the thin strip of area about the x axis. The strip is oriented at an angle θ from the x axis. Assume that $t \ll l$. Solution: $I_x = \int y^2 dA = \int_0^l (y_0 + y \sin \theta)^2 t dy = t \int_0^l (y_0^2 + 2y_0 y \sin \theta + y^2 \sin^2 \theta) dy = t [y_0^2 y + y_0 \sin \theta y^2 + \frac{1}{3} y^3 \sin^2 \theta]_0^l = t [y_0^2 l + y_0 \sin \theta l^2 + \frac{1}{3} l^3 \sin^2 \theta]$

Problem 10-4 Determine the moment for ...

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Chapter 10

Engineering Mechanics - Statics
Chapter 2 $F_2 u = 376.2 \text{ N}$ $F_2 v = F_2 \sin 180 \text{ deg} - () + \sin ()$
 $= F_2 v = 482.2 \text{ N}$ Problem

2-7 Determine the magnitude of the resultant force $F_R = F_1 + F_2$ and its direction measured counterclockwise from the positive u axis. Given: $F_1 = 25 \text{ lb}$ $F_2 = 50 \text{ lb}$ $\theta_1 = 30 \text{ deg}$ $\theta_2 = 30 \text{ deg}$ 3 ...

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