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Chapter 10 Statics

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Statics Chapter 10 Solution: 4

Moment and Product of Inertia

about x and y Axes: Since the $I_{xy} =$

0 in shaded area is symmetrical

about the x axis, $I_x = 2a^3 c$

$+ b^3 (2a) I_x = 10.75 \text{ in}^4$

$I_y = 3(a + b)^3 + 12c(2a) I_y = 30.75 \text{ in}^4$

$I_{xy} = 0$

Moment of Inertia about the

Inclined u and v Axes $(I_x + I_y) \cos^2(2\theta) - I_{xy} \sin(2\theta)$

$I_u = \frac{I_x + I_y}{2} + \frac{I_x - I_y}{2} \cos(2\theta) - I_{xy} \sin(2\theta)$

$I_u = 15.75 \text{ in}^4$

$I_x + I_y \dots$ Hibbeler chapter10 -

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Moment and Product of Inertia

about x and y Axes: Since the $I_{xy} =$

0 in shaded area is symmetrical about the x axis, $I_x = 2a^3c + b(2a)$ $I_x = 10.75$ in 12 Chapter 10 Statics Hibbeler -

modapktown.com Problem 10- The polar moment of inertia for the area is J_{CC} about the z' axis passing through the centroid C. If the moment of inertia about the y' axis is $I_{y'}$ and the moment of inertia about the x axis is I_x . Determine the area A. Given: $J_{CC} = 548 \times 10^6 \text{ mm}^4$ $I_{y'} = 383 \times 10^6 \text{ mm}^4$ $I_x = 856 \times 10^6 \text{ mm}^4$ $h = 250 \text{ mm}$. Hibbeler, statics 11th edition solutions manual. Chapter 10 Solution Manual - Engineering Mechanics Statics 12th Edition By RCHibbeler.pdf Chapter 10. Universiteit / hogeschool. Rijksuniversiteit Groningen. Vak. Mechanics (NAMECH05E) Geüpload

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