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- The moment of the resultant about any axis was determined by

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Chapter 9, Problem 8 : 9.13.

Determine the mass moment of inertia of... 9.13. Determine the mass moment of inertia of steel balls used in ball bearings. Use a diameter of 2 cm. Step-By-Step Solution. 9.13. SOLUTION. We will first calculate the mass of the

# Where To Download Chapter 9 Moments Of Inertia using Equation (9.1).

Solved > 9.13. Determine the mass moment of inertia of ...

PROBLEM 9.2. Determine by direct integration the moment of inertia of the shaded area with respect to the y. axis. SOLUTION. At . x a y a = =, : a k

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$a = \text{or. } k a = 2$ . Then  $\int y a x = 2$ . Now  $\int dI x dA x y dx x a x dx a x d. y = = = \hat{E} \ddot{E}$   
 $\hat{A} \hat{\sim} \sim = 2 2 2 2 2 ( ) x$ . Then  $\int dI a x dx a x a. y y a a a a a a = = = \hat{E} \hat{I} \hat{\sim}$   
 $\circ \cdot \hat{U} \hat{U}. 2 = - 2 2 2 2. 1 2 2 2 2 [(2 )$   
 $( ) ] \text{ or. } I a. y = 3 2. 4. b$

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Inertia  
over which they act. - The resultant was obtained by summing or integrating over the areas or volumes.  
- The moment of the resultant about any axis was determined by

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The moment of inertia of the region

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about the x- and y-axis:  $I_x = \frac{b h^3}{36}$   
 $= \frac{120 (160)^3}{36} = 13.653 \times 10^6 \text{ m}^4$   
 $I_y = \frac{b^3 h}{36} = \frac{(120)^3 (160)}{36}$   
 $= 7.680 \times 10^6 \text{ m}^4$  And, the  
product of inertia:  $I_{xy} = -\frac{b^2 h^2}{72}$   
 $= -\frac{(120)^2 (160)^2}{72} = -5.120$   
 $\times 10^6 \text{ m}^4$  The terms:  $I_x +$   
 $I_y = 13.653 + 7.680 = 21.333 \times 10^6 \text{ m}^4$

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$10.667 \times 10^6 \text{ m m}^4$   $R = (I_x + I_y)^2 + I_{xy}^2 = (13.653 + 7.680)^2 + (-5.120)^2 \times 10^6$   
 $R = 5.927 \times 10^6 \text{ m m}^4$  Hence, The principal moments of ...

Find the principal moments of inertia and the principal ...

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Definition of Moment of Inertia

Chapter 10.2 - Parallel-Axis Theorem

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Gyration of an Ar...

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Inertia Edition 9 - 18. Sample Problem 9.5.

SOLUTION : • Compute the moments of inertia of the bounding rectangle and half-circle with respect to the x axis. Rectangle:  $( ) ( ) 64 3 3 1 3 I_x = 1bh = 240 120 = 138 .2 \times 10 \text{ mm}$  Half-circle: moment of inertia with respect to AA' ,  $( ) 4 64 8 4 1 8 I_{AA'} = 1 r$

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$I_{x'} = 25.76 \times 10 \text{ mm}^4$

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9 - 6 Polar Moment of Inertia • The polar moment of inertia is an important parameter in problems involving torsion of cylindrical shafts and rotations of slabs.  $2J r dA 0$  •

The polar moment of inertia is related

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Inertia  
to the rectangular moments of inertia,  
 $I_y = \int x^2 dA$   
 $I_x = \int y^2 dA$   
 $I_{xy} = \int xy dA$   
 $I_o = \int r^2 dA$

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The moment of inertia with respect to  
the y-axis for the elemental area

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Inertia may be determined using the previous definition.  $I_y = \int x^2 dA$  where  $dA = y dx$  Thus,  $I_y = \int x^2 y dx$  The sign ( + or - ) for the moment of inertia is determined based on the area. • If the area is positive, then the moment of inertia is positive.

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Chapter 10: Moments of Inertia -  
Statics 4300:201

Moments of Inertia of area:  
Rectangular moment of inertia. The  
moment of inertia is a concept  
appearing in formulations of several  
physical phenomena. The

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**Inertia** mathematical definition of the moment of inertia of an area (two-dimensional region) about an axis is, where  $I$  is the moment of inertia of the area about an axis in the plane of the area, and  $r$  is the distance from axis  $m$  to the centroid of the differential area as shown in Fig. 10.1.

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