

CHAPTER 10 STATICS HIBBELER





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Eng.Mechanics static Hibbeler 12th Edition chapter 10 problems solution. Determine the moment of inertia of the area about y  
the x axis. Solve the problem in two ways, using rectangular differential elements: (a) having a thickness of dx, and (b) having  
a thickness of dy.  $y = 4 - 4x^2$  4 in. x 1 in. 1 in.

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Engineering Mechanics - Statics Chapter 10 Given:  $a = 40$  mm  $b = 120$  mm  $c = 40$  mm  $d = 40$  mm Solution:  $I_x' = 123 (a + b) (2c + 2d) = 112 b (2d) = 364$   $I_x' = 49.5 \times 10^6$  mm<sup>4</sup> Problem 10-34 Determine the moments of inertia for the shaded area  
about the x and y axes.

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Engineering Mechanics - Statics Chapter 10 (b)  $S_2 = 8.368$  kN (c)  $S_3 = 893$  g. Problem 1-6. Represent each of the following to  
three significant figures and express each answer in SI units using an appropriate prefix: (a) x, (b) y, and (c) z. Units Used: MN  
 $10^6 = N$   $10^3 = g$   $10^3 = N$  Given:  $x = 45320$  kN.

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you will find many useful mathematical solutions, and all of the solutions for end-of chapter review problems that are  
occurring throughout the text.

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Mechanics can be subdivided in various ways: statics vs dynamics, particles vs rigid bodies, and 1 vs 2 vs 3 spatial dimensions.  
Thus a 12 chapter mechanics table of contents could look like this I. Statics A. particles 1) 1D 2) 2D 3) 3D B. rigid bodies 4)  
1D 5) 2D 6) 3D II. Dynamics C. particles 7) 1D 8) 2D 9) 3D D. rigid bodies 10) 1D 11) 2D ...