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**Statics - Chapter 4 (Sub-Chapter 4.1 - 4.4) - Moment about a Point Moments: Scalar and Cross Product**

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**(Statics 4.1-4.2) ME273:**

Statics: Chapter 4.1 - 4.4

*Statics - Chapter 4 (Sub-Chapter 4.6) - Moment of a Couple Problem F4-2 Statics*

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~~Statics Chapter 4 (Sub-~~

~~Chapter 4.9) — Distributed~~

~~Loading Chapter 2 - Force~~

~~Vectors Problem F4-1 Statics~~

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**Statics - Moment in 2D**

**example problem Moment of**

**Force Problem 1 3. Momentos**

**ejercicio F4.2 Chapter 4 (**

**Couple moment and extra**

**examples about moment )**

Momento en un punto #2,

Determine el momento de la

fuerza con respecto al punto

O.

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Moments: Further

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Simplification, Distributed  
Loads (Statics 4.8-4.9)

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Problem F4-3 Statics

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*Force Systems Resultants |  
Chapter 4 Problems |*

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*(Chapter 4) Problem F4-9*

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Statics - Chapter 4 (Sub-Chapter 4.5) - Moment about an axis Hibbeler Statics Chapter 4 Solutions

Solution: Consider the three vectors; with A vertical.

Note triangle  $abd$  is perpendicular to A.  $od = AB \times () + = A ()BD + \sin ()? 3$   $ob = AB \times = A B \sin ()? 1$   $bd = AD \times = A B \sin ()? 2$  Also, these three cross products all lie in the plane  $abd$  since they are all perpendicular to A. As noted the magnitude of each cross product is proportional to the length of each side of the triangle.

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Problem F4-1 Statics

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\*4-4. Determine the moment  
about point A of each of the  
three forces acting on the  
beam. SOLUTION. a

(Clockwise) Ans. a

(Clockwise) Ans. a = -2593

lb#ft = 2.59 kip#ft (Clockwise)

Ans. 1 MF 32 A = -1601 cos

$30^\circ$  21192 +160 sin  $30^\circ$  1 0.5

2 = -5600 lb#ft = 5.60 kip#ft.

1 MF 22 A = -500 a; 4 5. b1

142 = -3000 lb#ft = 3.00 kip#ft

+ 1 MF 12 A = -375182. F 2 =

500 lb. F 3 = 160 lb. 4 3. 5

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Force System Resultants:

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Problem F4-4 Statics

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Chapter 4. Shigley's MED,  
10th edition Chapter 4  
Solutions, Page 1/80.

Chapter 4. 4-1 For a torsion  
bar,  $k_T = T/\theta = Fl/\theta$ , and

so  $\theta = Fl/k_T$ . For a

cantilever,  $k_l = F/\delta$ ,  $\delta =$

$F/k_l$ . For the assembly,  $k =$

$F/y$ , or,  $y = F/k = l\theta + \delta$

Thus.  $2 T l. F Fl F y k k k$

$= = +$  Solving for  $k. 2 2.$

Chapter 4 Engineering

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location of the center of mass of the uniform parabolic-shaped rod.

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