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**4.1 - 4.4) - Chapter**

**Moment about a  
Point Moments:**

**Scalar and Cross  
Product (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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Chapter 2 - Force

Vectors Problem

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**Statics - Moment**

**in 2D example**

**problem Moment**

**of Force Problem**

**1 3. Momentos**

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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.

---

Moments: Further

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Example 2.1

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*ME273: Statics: Chapter*

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Problem F4-3

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*Force Systems*

*Resultants |*

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*Chapter 2 | P 2-9 to*

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*Rectangular Chapter*

*Components |*

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(Sub-Chapter 4.5) -

Moment about an

axis Hibbeler

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Solutions

Solution: Consider  
the three vectors;  
with  $A$  vertical.

Note triangle  $obd$  is  
perpendicular to  $A$ .

$$od = AB \sin(\theta) = A \sin(\theta)$$

$$ob = AB \cos(\theta) = A \cos(\theta)$$

$$bd = AD \sin(\theta) = A \sin(\theta)$$

$$od = AD \cos(\theta) = A \cos(\theta)$$

Also, these

three cross

products all lie in

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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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\*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

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$= -2593 \text{ lb}\cdot\text{ft} = 2.59$

$\text{kip}\cdot\text{ft}$  (Clockwise)

Ans. 1 MF 32 A = -

$1601 \cos 30^\circ$

$21192 + 160 \sin$

$30^\circ \cdot 1 \cdot 0.5 \cdot 2 = -5600$

$\text{lb}\cdot\text{ft} = 5.60 \text{ kip}\cdot\text{ft}$ .

1 MF 22 A = - 500 a;

4 5. b1 142 = -3000

$\text{lb}\cdot\text{ft} = 3.00 \text{ kip}\cdot\text{ft}$

+ 1 MF 12 A = -

375182. F 2 = 500

lb. F 3 = 160 lb. 4 3.

5



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4-1 For a torsion

bar,  $k_T = T / \theta = Fl /$

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$\theta$ , and so  $\theta = Fl/kT$ .

For a cantilever,

$kl = F/\delta$ ,  $\delta = F/kl$ .

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

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Located throughout the text, usually at the end of each chapter, these problems involve conceptual situations related to the application of the mechanics principles contained in the chapter. These analysis and design problems are

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intended to engage  
the students in  
thinking through a  
real-life situation  
as depicted in a  
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1. 815 • 9-1.

Determine the mass and the location of the center of mass of the uniform parabolic-shaped rod. Hibbeler Statics solution - Chapter 7 (2) 8.02x - Lect 16 - Electromagnetic

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