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Equations and Free
Body Diagrams (Statics
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Chapter 5 (1/2) Statics—
Chapter 5 (Sub-Chapter
5.3—5.4)—Equilibrium
of Rigid Bodies 2D
problems Engineering
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~~Statics: Chapter 5.1 -~~

~~5.2 Statics: Rigid Body~~

~~Equilibrium -~~

Introduction to Chapter

\u0026 Free Body

Diagrams Statics -

Chapter 5 (Sub-Chapter

5.1 - 5.2) - Equilibrium

of Rigid Bodies \u0026

Free Body Diagram

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*Free Body Diagram (for
Equilibrium of Rigid
Bodies Problems)*

*MEC260 Chapter 5 part
1*

Dot Product and Force
Vectors | Mechanics
Statics | (Learn to solve
any question)

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Mechanics of Materials
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(Mechanics manual)

Chapter 2 - Force
Vectors *Statics*

Example: 2D Rigid

Body Equilibrium

Reduction of a Simple
Distributed Loading

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Statics, Problem 10.24

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Further Simplification,

Distributed Loads

(Statics 4.8-4.9)

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~~Statics: Lesson 36 – 3D~~

~~Reaction Force~~

~~Problem, Rigid Body~~

~~Equilibrium 6(!!!)~~

Chapter 5 Free-Body

Diagram Practice

Problems | Two- and

Three- Force Members

Chapter (5) || Statics

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5.5 - 5.7 *Engineering*

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~~chapter 5 “couples” (for
secondary three)~~

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Lecture 18 |

Beams—Internal Effects

(CHAPTER 5) |

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Beams—External Effects

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- Statics Chapter 5 Draw
the free-body diagram
of the beam, which is
pin-connected at A and
rocker-supported at B.

Given: $F = 500 \text{ N}$ $M =$
 800 N m ? $a = 8\text{m}$ $b =$
 4m $c = 5\text{m}$ Solution:

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Problem 5-11 The
sphere of weight W
rests between the
smooth inclined planes.

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chapter 5 1. PROBLEM

5.1 Locate the centroid
of the plane area

shown. SOLUTION A,

in 2 x , in. y , in. xA, in

3 yA, in 3 1 8 × 6 = 48

?4 9 ?192 432 2 16 × 12

= 192 8 6 1536 1152 ?

240 1344 1584 ? xA

1344 in 3Then X = = or

X = 5.60 in. ?A 240 in 2

? yA 1584 in 3and Y =

= or Y = 6.60 in. ?A

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240 in 2

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ForceSection A Two-

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- Statics Chapter 10

Problem 10-5

Determine the moment
for inertia of the shaded
area about the y axis.

Given: $a = 4\text{in}$ $b = 2\text{in}$

Solution: $I_y = \int_0^a x^2 dx + \int_0^b x^2 dx$

$= \frac{1}{3} a^3 + \frac{1}{3} b^3 = \frac{1}{3} (4^3 + 2^3)$

$= \frac{1}{3} (64 + 8) = \frac{72}{3} = 24\text{in}^4$

Problem 10-6

Determine the moment
of inertia for the shaded
area about the x axis.

Solution: $I_x = \int_0^b x^2 dx + \int_0^h x^2 dx$

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