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**Equilibrium And**

**Dynamics**

**And**

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equilibrium and

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in harmful  
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a cup of coffee  
in the  
afternoon, on  
the other hand  
they juggled  
considering some

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inside their  
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*Rotational*

*Motion (16 min)*

Rotational

Motion Physics,

Basic

*Page 6/88*

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Physics

Introduction,

Angular Velocity

\u0026

Tangential

Acceleration

Rotational

Equilibrium

Introduction

(and Static

Equilibrium

too!!) Chapter 8

Rotation of

Rigid *Rotational*

*Motion: Crash*

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Chapter *Physics*

~~#11 Torque,~~

~~Moment of~~

~~Inertia,~~

~~Rotational~~

~~Kinetic Energy,~~

~~Pulley, Incline,~~

~~Angular~~

~~Acceleration,~~

~~Physics Static~~

~~Equilibrium -~~

~~Tension, Torque,~~

~~Lever, Beam,~~

~~\u0026 Ladder~~



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Chapter 8

Physics Week 8 :

8.0 Rotation of  
Rigid Body

*Physics Chapter*

*8 Rotational*

*Motion HW 65*

~~Rotational~~

~~Motion 7 |~~

~~Rotational~~

~~Equilibrium |~~

~~Physics Video~~

~~Lecture | Class~~

~~11 | Ashish Sir~~

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Chapter 8 Motion  
and Torque Static

*Equilibrium:*

*concept What is*

*Rigid body?*

*Explain Rigid*

*body, Define*

*Rigid body,*

*Meaning of Rigid*

*body* ~~Rotational~~

~~Kinematics~~

~~Physics~~

~~Problems, Basic~~

~~Introduction,~~

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~~Chapter 8~~ Equations \u0026amp;

~~Formulas~~ **Lec 19:**

**Rotating Rigid**

**Bodies, Inertia,**

**and Axis**

**Theorems | 8.01**

**Classical**

**Mechanics**

**(Walter Lewin)**

---

Kinematics Of

Rigid Bodies -

General Plane

Motion - Solved

Problems

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Introduction to  
torque /

Moments, torque,  
and angular

momentum /

Physics | Khan

Academy Torque:

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Equilibrium

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Rotational

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~~Motion 08 | Best~~

~~Numericals of~~

~~Rotational~~

~~Motion and Rigid~~

~~Body Dynamics~~

~~JEE MAINS /NEET~~

~~Rotational~~

~~Motion 13 |~~

~~Rolling Series~~

~~01 | Combined~~

~~Translation +~~

~~Rotational~~

~~Motion | IIT JEE~~

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~~12 - Rotation of  
a Rigid Body~~

~~Motion Class 9~~

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~~8 Physics | NTSE~~

~~Preparation | By~~

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~~Upmanyu NEET~~

~~2020: Rotational~~

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~~Rotational~~

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Motion | Law of

Conservation of

Angular Momentum

| Class 11 | JEE

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**Uniform Circular**

**Motion | Chapter**

**8 Motion | Class**

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*8 Rotational*

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*PHYSICS CHAPTER*

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#### MOTION AND

#### EQUILIBRIUM ...

The forearm is  
in equilibrium.

Apply condition  
of the net force  
on forearm  
equals zero.

Apply condition  
of the net  
torque on the  
forearm equal  
zero. The

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Chapter 8

acceleration of  
a rigid body is  
proportional to  
the net torque  
acting on it.

*Chapter 8*

*Rotational*

*Equilibrium and*

*Rotational*

*Dynamics*

Chapter 8

Rotational

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Physics

Chapter 8 Equilibrium and

Rotational

Dynamics 8.1

TORQUE 8.1

Torque 227 We

will find that an

object remains

in a state of

uniform

rotational

motion unless

acted on by a

net torque. This

principle is the

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Chapter 8 of  
Newton's first  
law. Further,  
the angular ac-

Dynamics

*Chapter 8*

*Rotational*

*Equilibrium and*

Physics Chapter

8 Rotational

Equilibrium

Physics: Chapter

8: Rotational

Equilibrium &

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PLAY. Torque. a quantity that measures the

ability of a force to rotate an object about some axis. The magnitude of a torque depends on. the force used the lever arm. Torque is the cause of.

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Chapter 8 Torque  
= force x lever  
arm.

Equilibrium And

Physics Chapter

8 Rotational

Equilibrium And

Dynamics

Physics: Chapter

8: Rotational

Equilibrium &

Dynamics. STUDY.

PLAY. Torque. a

quantity that

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Rotational  
Equilibrium And  
Dynamics

measures the ability of a force to rotate an object about some axis. The magnitude of a torque depends on. the force used the lever arm. Torque is the cause of. rotation. Torque = force x lever arm.

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Rotational

Equilibrium and

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## Physics

Chapter 8 Section

8-2: Rotation

and inertia

         Pacing

Regular

Schedule: with

lab(s): 1 day

without lab(s):

1 day Block

Schedule: with

lab(s): 1/2 day

without lab(s):

1/2 day

Objectives 1.

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Identify the  
center of mass  
of an object. 2.  
Equilibrium And

*Chapter 8:*

*Rotational*

*Equilibrium and*

*Dynamics*

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Dynamics Physics

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Equilibrium And  
Dynamics. Dear

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you are hunting  
the physics

chapter 8

rotational

equilibrium and  
dynamics

gathering to get  
into this day,  
this can be your

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referred book.

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Rotational  
Physics Chapter  
8 Rotational And  
Equilibrium And  
Dynamics

DF025 CHAPTER 8

8.2 Equilibrium

of a rigid body

Non-concurrent

forces ? is

defined as the

forces whose

lines of action

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## Physics

Chapter 8  
do not pass

through a single  
common point. ?

The forces cause

the rotational

motion on the

body. ? The

combination of

concurrent and

non-concurrent

forces cause

rolling motion

on the body.

(translational



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Physics

and rotational motion) ? Figure 5.11 shows an example of non-concurrent

forces. ? ?  $F_1$

$F_2$  ?  $F_4$  ? Figure

8.2  $F_3$  44

*Physics Chapter  
8- Rotational of  
a Rigid Body*

Rotational

Equilibrium and

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## Physics

### Chapter 8

Solution r child

= 1.5m m child =

16kg r adult =

3.0m F adult =

95N 3.0 m > 2.48

m; the adult has

enough momentum

to push down and

push the child

up. 0 = ? ? A A

c c F r F r = m

N s m kg m F g m

r r A c c A 48 .

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Physics

Chapter 8 / 81 . 9

( 16 ) ( 5 . 1

( ) ( 2 = = =.

Rotational

Equilibrium and

Dynamics Problem

At the local

playground, a

16kg child sits

on the end of a

horizontal

teeter-totter,

1.5 m from the

pivot point.

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Chapter 8

*Physics 8*

*Physics Chapter*

*8 Rotational*

*Equilibrium and*

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Chapter 8 Page

8.1 8 Rotational

Equilibrium and

Rotational

Dynamics PROBLEM

SOLUTIONS 8.1

Since the

friction force

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Chapter 8  
is tangential to

Rotational  
a point on the  
rim of the

Equilibrium And  
wheel, it is

Dynamics  
perpendicular to

the radius line  
connect-ing this

point with the

center of the

wheel. The

torque of this

force about the

axis through the

center of the

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*Rotational  
Equilibrium and*

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*Rotational ...*

The axis of  
rotation for a  
uniform,

spinning disc is



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Rotational  
Equilibrium And  
Dynamics

located at the \_\_\_\_\_ of the disk. center of mass For an object to be in static equilibrium, it must be in \_\_\_\_\_ equilibrium, which means that the net torque on the object must be zero.

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Physics- Chapter

8: Rotational

Motion

Flashcards | And

Quizlet

8B Equilibrium

Complete

equilibrium

requires zero

net force and

zero net torque.

Translational

equilibrium: net

force in x and y

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Called 1st  
condition of  
equilibrium  $\sum F_x$

$= 0, \sum F_y = 0$

Rotational  
equilibrium: net  
torque=0 Called  
2nd condition of  
equilibrium  $\sum \tau = 0$

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Equilibrium

Rotational

Kinematic

Equations Until

this chapter, we

have been

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objects to be  
point objects  
with no physical  
size, and we  
have analyzed  
their linear  
motion. This  
motion is for an

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*Equilibrium*

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simplicity of  
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physical theories

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Physics with the  
goal of

presenting  
physics in a  
building-block  
fashion.

Accordingly,  
Volume III.

Electricity,  
Magnetism and  
Light requires a  
knowledge of

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Volume I.

Mechanics and

Volume II.

Matter, Heat and

Waves. Volume

III begins with

a study of

electric

charges, their

electric

fields/forces,

and subsequently

their motion as

electric

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Chapter 8 These

currents are

shown to produce

magnetic

fields/forces,

where

electromagnets

are studied as

models for

understanding

permanent

magnets. Next,

The reverse

process where

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magnetic fields

produce current

is examined and

applied for

generating

electricity. AC

and DC circuits

exemplify

further

applications.

Finally,

electric and

magnetic fields

are found to



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electromagnetic waves that move at the speed of light. The study of light begins with historical measurements of its speed and then examines its electromagnetic power intensity, light spectra,

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human response  
and color  
perception.

Rotational  
Equilibrium And  
Dynamics  
Next, light  
reflection and  
refraction are  
applied to  
mirrors, lenses,  
rainbows,  
eyeglasses,  
telescopes and  
microscopes.

Subsequently,  
The text

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Chapter 8  
examines the  
wave nature of  
light, As  
exhibited by its  
diffraction and  
interference  
phenomena.

Furthermore,  
when the  
electric field  
amplitudes of  
waves are  
oriented along  
one dimension,

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light is polarized.

Polaroids filter out such

"glaring" light

when used in sunglasses.

Finally, various light

experiments

provided early

clues for

discovering

relativity and

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Chapter 8

quantum mechanics, which are examined in Volume IV. Near

the end of each chapter a Simple Projects section suggests

experiments and/or field trips that can reinforce the physics covered.

Some experiments

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Chapter 8  
Rotational  
Equilibrium And  
Dynamics  
are simple  
enough for  
students to  
explore alone,  
while others  
benefit from  
equipment  
available to  
physics  
instructors.

Also optional  
text sections  
provide students  
with a deeper

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appreciation of the subject matter; however these are not required for continuity. Some of these optional topics can be candidates for term projects.

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motivates

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understanding by

emphasizing the

relationship

between major

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how to apply the

reasoning of

physics to real-

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students develop  
a strong



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the algebra-  
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topics on the  
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