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26-152 No Math

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Rigid Body: Rotational
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A rigid body is in

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equilibrium if the sum of all forces acting on it gives a resultant force F_r and couple M_r both equal to zero.

Notice that in that case, the resultant couple will be zero with respect to any point, because moving the resultant force $F_r = 0$ to any other point does not introduce any additional moment.

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5. Dynamics of rigid
bodies

RIGID BODY

DYNAMICS The

translations of the body
require three spatial
coordinates. These
translations can be
taken from any xed
point in the body.

Typically the xed point
is the center of mass
(CM), dened as: $1 R =$

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8.09(F14) Chapter 2:
Rigid Body Dynamics

A rigid body consists of a group of particles whose separations are all fixed in magnitude. Six independent coordinates are required to completely specify the position and orientation of a rigid body. For example, the location of the first particle is

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Chapter 12
specified by three
coordinates.

Rigid Body Motion and
Rotational Dynamics
Chapter 12. Rotation of
a Rigid Body Not all
motion can be described
as that of a particle.

Rotation requires the
idea of an extended
object. This diver is
moving toward the
water along a ... •

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- Rotational Dynamics
- Rotation About a Fixed Axis
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& Astronomy

Dynamics of a Single
Rigid Body (Chapter
8.2, Part 2 of 2) ...

(Chapter 8.1.3) 5:21.

Dynamics of a Single

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Rigid Body (Chapter 8.2, Part 1 of 2) ... To wrap up, we have derived the inverse dynamics for a rigid body: given the twist and acceleration, we can calculate the wrench needed to generate this motion. We can also write the forward ...

Dynamics of a Single Rigid Body (Chapter
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8.2, Part 2 of 21...

Chapter 18: Planar
kinetics of a Rigid Body:
Work and Energy

Chapter 19: Planar
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Kinematics of a Rigid
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under-damped free
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Rigid Body
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the body, i.e., nota body-
fixed reference frame). '

Note: in this situation, in
the quantity (both, the
inertia matrix

components (defined by
the orientation of the
body relative to the xyz

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Chapter 13: Rotation of a Rigid Body
system), and the components of the angular velocity vector relative to xyz system (O', O, O) change. To avoid the added complexity of the

8. MORE RIGID
BODY DYNAMICS -
College of Engineering
Chapter 13: Rotation of
a Rigid Body In rigid
body dynamics we have

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two types of motion:
transla-tional and
rotational, plus a third
which is a combination
of the two. So far, we
have only considered
translational motion.
This chapter shows us
how to include rotation
into the dynamics.

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If you're looking at the
sub-chapters, usually the
kinematics chapters
precedes the kinetics
chapter for the particle
case, rigid body case,
and the 3D dynamics of

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the rigid body as well.

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The ultimate now is that we want to deliver throughout the dynamics causes the kinetics chapter, which is the force and motion relationship.

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Chapter five introduces
the moment of inertia
and angular momentum
to prepare for the study
of the dynamics of rigid
bodies. Chapter six
focuses on the solutions
of problems in rigid
body dynamics , with
exercises including
"motion of a rod on

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which an insect is
crawling" and the
motion of a spinning top

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