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Forces Statics  
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Equilibrium Force

2 Static Equilibrium

Force and Moment

2.1 Concept of Force

Equilibrium of a

Particle You are

standing in an

elevator, ascending at

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Equilibrium  
Force And  
Moment

a constant velocity,  
what is the resultant  
force acting on you as  
a particle? The  
correct response is  
zero: For a particle at  
rest, or moving with  
constant velocity  
relative to an inertial  
frame, the resultant  
force acting on the  
isolated particle must  
be zero ...

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Moment

...  
CHAPTER 2. STATIC  
EQUILIBRIUM

LESSON OUTLINE

Condition for statics  
equilibrium Examples  
of rigid objects in  
static equilibrium

Static

equilibrium Static: The  
subject concerned

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Equilibrium

with the  
determination of the  
forces within a  
structure at rest.

Equilibrium: Object at  
rest. Static

Equilibrium: An object  
at rest is said to be in  
static equilibrium  
when all forces acted  
upon the object are  
balance or when the  
vector sum of all  
forces action on a

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body is zero.  
Force And  
Chapter 2 Static  
Equilibrium | Center  
Of Mass | Force

For static equilibrium  
of the isolated  
particle, the resultant  
of the two forces –  
Wacting downward  
and Racting upward  
– must be zero.

$\sum F_y = 0$  This leads  
to the not very earth

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Equilibrium  
shaking conclusion  
Force And  
Moment  
that the magnitude of  
the reaction force,  
acting up, must equal  
the weight.

Static Equilibrium  
Force and Moment  
Chapter 2 Newton's  
First Law of Motion-  
Inertia. Static  
Equilibrium. 1. Little  
Nellie Newton wishes  
to be a gymnast and

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hangs from a variety of positions as shown. Since she is not accelerating, the net force on her is zero. That is,  $\sum F = 0$ . This means the upward pull of the rope(s) equals the downward pull of gravity.

Chapter 2 Newton's  
First Law of Motion-  
Inertia The ...



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The second equilibrium condition for the static equilibrium of a rigid body expresses rotational

equilibrium:  $\sum \tau = 0$ . The second equilibrium condition, Figure, is the equilibrium condition for torques that we encountered when we

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Equilibrium  
studied rotational  
dynamics.

## Force And

## Moment

12.1 Conditions for  
Static Equilibrium –  
General Physics ...

The second force is  
the static friction  
force  $f = \mu_s N$   
directed horizontally  
along the floor  
toward the wall—this  
force prevents the

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Equilibrium  
ladder from slipping.

Force And  
Moment  
These two forces act  
on the ladder at its  
contact point with the  
floor.

12.2 Examples of  
Static Equilibrium |

University Physics ...

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Equilibrium Force

And Moment , you

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## Chapter 2 Static Equilibrium Force And Moment

What is the net force  
on an object in either  
static or dynamic  
equilibrium? The net  
force is zero If you  
push on a crate with a  
horizontal force of

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100 N and it slides at constant velocity, what is the magnitude and direction of the frictional force acting on the crate?

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tension, the forces acting at this point are as shown. Since this junction in the

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strings is in static equilibrium, the (vector) sum of the forces acting on it must give zero. Thus the sum of the x components of the forces is zero:  $-T_1 \sin 35^\circ + T_2 = 0$  (3.4) and the sum of the y components of the forces is zero:  $+T_1 \cos 35^\circ - 40\text{N} = 0$  (3.5)



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## Chapter 3 Static Equilibrium

The second force is the static friction force  $f = \mu_s N$  directed horizontally along the floor toward the wall—this force prevents the ladder from slipping. These two forces act on the ladder at its contact

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point with the floor.

## Force And Moment

12.2 Examples of  
Static Equilibrium -

University Physics ...

must vanish. We usu-

CHAPTER 2 Static

Equilibrium Force and

Moment Static

Equilibrium: An object

at rest is said to be in

static equilibrium

when all forces acted

upon the object are

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Equilibrium  
Force And  
Moment  
balance or when the  
vector sum of all  
forces Page 2/15

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Equilibrium Force  
And Moment  
Chapter 2: 4  
Problems for Vector  
Decomposition.  
Determining  
magnitudes of forces  
using methods such  
as the law of cosine  
*Page 27/35*

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questions covering  
vocabulary, terms and  
more. ... Static  
Equilibrium ... then  
the vector sum of the  
forces must equal 0.  
Statics. the study of

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Equilibrium  
the forces acting on  
an object at rest.

Force And  
Moment  
Torque. measure of  
the ability of a force  
to cause rotation.

Little l. is  
perpendicular from  
the ...

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Chapter 1. Review of  
Static Equilibrium

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Objectives: To review fundamental principles and methods used for

solving equations of static equilibrium of bodies. Background:

- Equations of equilibrium - for a body acting upon by three-dimensional forces ( $F_1, F_2, F_3, \dots$ ) and force-couples ( $M_1, M_2,$

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! M 3, ...) we have the  
following

Chapter 1. Review of  
Static Equilibrium  
Chapter 2 - Static  
Equilibrium Force and  
Moment ; Chapter 3 -  
Internal Forces and  
Moments ; Chapter 4  
- Stress ; Chapter 5 -  
Indeterminate  
Systems ; Chapter 6 -  
Strain ; Chapter 7 -

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and Failure  
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Beams in Bending ;  
Chapter 10 -  
Deflections ...

Readings | Solid  
Mechanics | Civil and  
Environmental ...



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Equilibrium  
Force And  
Moment

Statics is primarily the study of bodies in static equilibrium.

There are two conditions necessary for static equilibrium: the net force on a body equals zero and the net torque on a body equals zero.

This is why we have waited until after discussing rotations to consider statics.

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Physlet Physics:

Chapter 13: Statics

All forces acting on each stilt walker balance out; neither changes its translational motion. In addition, all torques acting on each person balance out, and thus neither of them changes its rotational motion.

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The result is static equilibrium. (credit: modification of work by Stuart Redler)

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