

Pre-Lab 2: Rotational Equilibrium and Torque

1. Experimental Objectives

- Understand torque as a vector and apply it to static equilibrium problems
- Investigate static equilibrium conditions of rigid bodies without rotation
- Understand torque as a scalar (one-dimensional case of the 3-vector analysis)
- Develop the static equilibrium competency of the course

2. Background

Considered in the previous lab, rotational dynamics involves the vector and conditions for rotational equilibrium. This lab begins to investigate the conditions a rigid body must satisfy to maintain static equilibrium. Static equilibrium is the condition of a rigid body at rest or moving with a constant velocity. For static equilibrium, the net force and the net torque on the body must be zero.

Rotational equilibrium is a condition that requires the net torque on a rigid body to be zero. Torque is a vector quantity that is the cross product of the position vector and the force vector. The magnitude of the torque is the product of the magnitude of the force and the perpendicular distance from the axis of rotation to the line of action of the force.

In this lab, you will investigate the conditions for static equilibrium of a rigid body. You will use a rigid body (a meterstick) and a set of weights to create a system in static equilibrium. You will measure the forces and torques on the system and compare them to the theoretical values. You will also investigate the conditions for rotational equilibrium of a rigid body.

A rigid body is a body that does not deform under the action of forces. In this lab, you will use a rigid body (a meterstick) and a set of weights to create a system in static equilibrium. You will measure the forces and torques on the system and compare them to the theoretical values. You will also investigate the conditions for rotational equilibrium of a rigid body.

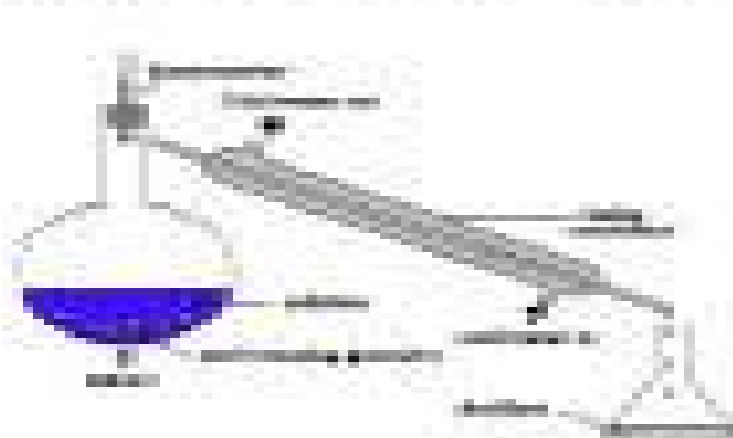


Figure 1: Meterstick in static equilibrium.

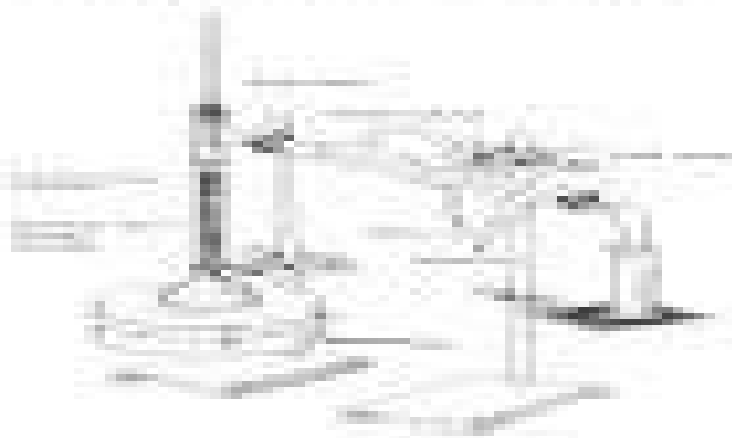


Figure 2: Meterstick in static equilibrium.

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