

Physics 207 - Lab 7 - Buoyancy

Introduction

The apparent weight of an object is given by the difference between the

$$W_{app} = W - F_b$$

where W is the weight of the object and F_b is the buoyant force.

The buoyant force is the upward force exerted on an object by a fluid (liquid or gas) and is equal to the weight of the fluid displaced by the object. This is known as Archimedes' principle.

$$F_b = \rho V g$$

where ρ is the density of the fluid, V is the volume of the object submerged, and g is the acceleration due to gravity. The buoyant force acts on the center of mass of the object and is directed upwards.

The buoyant force is equal to the weight of the fluid displaced by the object. This is known as Archimedes' principle. The buoyant force acts on the center of mass of the object and is directed upwards.

Experiment 1

Determine the density of a solid object using Archimedes' principle.

Method 1:

Step 1: Weigh the object in air. Step 2: Weigh the object in water. Step 3: Calculate the buoyant force. Step 4: Calculate the density of the object.

Method 2:

Step 1: Weigh the object in air. Step 2: Weigh the object in water. Step 3: Calculate the buoyant force. Step 4: Calculate the density of the object.

Report Questions

1. Calculate the density of the object using Method 1.

Experiment 2

Determine the density of an object using Archimedes' principle.

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