

Physics 207 – Lab 7 – Buoyancy

Introduction

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

$$W_{app} = W - \rho V g$$

where ρ is the density of the fluid, V is the volume of the object, and g is the acceleration due to gravity.

The difference between the two quantities is the buoyant force, which is equal to the weight of the fluid displaced by the object. This is known as Archimedes' principle. The buoyant force is given by

$$F_b = \rho V g$$

where ρ is the density of the fluid, V is the volume of the object, and g is the acceleration due to gravity. The buoyant force is equal to the weight of the fluid displaced by the object. This is known as Archimedes' principle. The buoyant force is given by

The buoyant force is equal to the weight of the fluid displaced by the object. This is known as Archimedes' principle. The buoyant force is given by

Experiment 1

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

Method 1:

1. Weigh the object in air. 2. Weigh the object in water. 3. Calculate the buoyant force. 4. Calculate the density of the object. 5. Compare the result to the known density of the object.

Method 2:

1. Weigh the object in air. 2. Weigh the object in water. 3. Calculate the buoyant force. 4. Calculate the density of the object. 5. Compare the result to the known density of the object.

Report Questions

1. Calculate the density of the object.

Experiment 2

Determine the density of an object using Archimedes' principle.

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