

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 buoyant force is the upward force exerted on an object submerged in a fluid. It 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

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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 results 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 results to the known 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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Michael Rajnik



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