



EXPT - 1 - MEASUREMENT

COURSE CODE: PHY 406
EXPERIMENT: 1 (MEASUREMENT)

Objective

To determine the (a) density of glass and (b) the density of iron.

Learning Outcomes: At the end of the experiment, student will be able to

1. Determine the concepts of measurements.
2. Determine the relationship between the length, thickness and breadth.
3. Identify the independent, fixed and dependent variables in the equation used for this experiment.

Theory

Density is defined as the ratio of mass to volume of any substance i.e. solid, liquid or gas.

$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$

$$\rho = \frac{m}{V}$$

The S. I unit for density: kgm^{-3} , gcm^{-3}

Apparatus

Vernier callipers, micrometer screw gauge, weighing machine, ball bearing, and glass block.

Method(a)

1. Find the probable scale measurement error of the vernier callipers.
2. Measure the length a , breadth b , and thickness t , of a glass block with a vernier calliper (taking into account the zero error).
3. Weigh the glass block to get the mass m , and find the probable scale measurement error of the weighing machine.

Results & Analysis

1. State the value of a , b , t , and m with their units and probable errors.

| | | |
|-------|-------|-------|
| $a =$ | _____ | _____ |
| $b =$ | _____ | _____ |
| $t =$ | _____ | _____ |
| $m =$ | _____ | _____ |

2. Calculate the following values:

Volume of glass block, $V = a \times b \times t$

$$\text{Error in } V, \Delta V = \left(\frac{\Delta a}{a} + \frac{\Delta b}{b} + \frac{\Delta t}{t} \right) V$$

$$\text{Density, } \rho = \frac{m}{V}$$

$$\text{Error in } \rho, \Delta \rho = \left(\frac{\Delta m}{m} + \frac{\Delta V}{V} \right) \rho$$

3. State the final value of the density of the glass block with it's probable error.

PARTICULAR APPROACH OR ANSWER GIVEN

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Method (b)

1. Find the probable measurement scale error of the micrometer screw gauge.
2. Measure the diameter of the ball bearing at six different places using the micrometer screw gauge (taking into account the zero error). Find the radius of the ball bearing using the measured value of the diameter.
3. Weigh the ball bearing and state the mass m , of the ball bearing together with it's probable error.

Results & Analysis

1. Data table.

| No. Readings | Diameter, d (_____) | Radius, $r = \frac{d}{2}$ (_____) |
|--------------|--------------------------|--------------------------------------|
| _____ | _____ | _____ |



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Albert A Gayle



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