

CONCEPTUAL PHYSICS

THEORY LAB

Electromagnetic Induction: Conceptual and Experiment for Students Engagement for

Faraday's Electromagnetic Lab

Purpose

To understand the concept of magnetic induction, and how it is related to the concept of electromagnetic induction.

Equipment and Materials

1. A bar magnet
2. A coil of wire
3. A galvanometer
4. A switch

Procedure

1. Connect the circuit as shown in the diagram. The galvanometer is connected in series with the coil of wire. The switch is used to connect and disconnect the circuit.

2. Move the magnet in and out of the coil. Observe the deflection of the galvanometer needle. The deflection is maximum when the magnet is moved rapidly and minimum when it is moved slowly.

3. Repeat the experiment for different magnets and different coils. Observe the effect of the area of the coil and the strength of the magnet on the deflection of the needle.

Results

Step 1: Introduction

Step 1: When the magnet is moved in and out of the coil, the galvanometer needle shows deflection. The deflection is maximum when the magnet is moved rapidly and minimum when it is moved slowly.

Step 2: When the magnet is moved in and out of the coil, the galvanometer needle shows deflection. The deflection is maximum when the magnet is moved rapidly and minimum when it is moved slowly.

Step 3: When the magnet is moved in and out of the coil, the galvanometer needle shows deflection. The deflection is maximum when the magnet is moved rapidly and minimum when it is moved slowly.

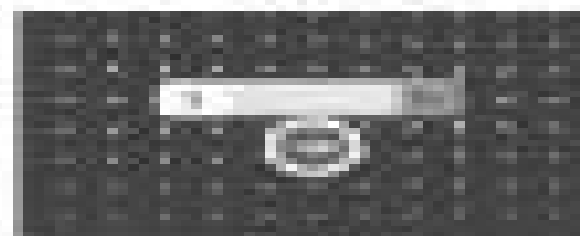


Figure 1

Figure 1

Figure 1

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Anthony S. Fauci



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