

CONCEPTUAL PHYSICS

THEORY LAB

Electromagnetic Induction: Conceptual and Experiment for Students Engagement Lab

Faraday's Electromagnetic Lab

Purpose

To understand the concept of magnetic induction, its applications, and the factors affecting it, through conceptual and experimental work.

Objectives

After this lab, the student will be able to: (1) understand the concept of magnetic induction, (2) understand the factors affecting it, and (3) understand its applications.

Introduction

When a wire is placed in a magnetic field and the field is changed, an electromotive force (EMF) is induced in the wire. This is called electromagnetic induction. The induced EMF is proportional to the rate of change of the magnetic flux through the wire. The magnetic flux is the product of the magnetic field and the area of the wire perpendicular to the field.

The application of electromagnetic induction is the basis of many modern technologies. For example, a generator is a device that converts mechanical energy into electrical energy. It works by rotating a coil of wire in a magnetic field, which induces an EMF in the coil. The induced EMF is then used to power a circuit.

The induced EMF is also used in many other applications, such as in transformers, which are used to step up or step down voltages. Transformers work by inducing an EMF in a secondary coil by changing the current in a primary coil.

Procedure

Part 1: Induction

Step 1: Turn the switch on. The induced EMF is measured. The induced EMF is proportional to the rate of change of the magnetic flux through the wire.

Step 2: Turn the switch off. The induced EMF is measured. The induced EMF is proportional to the rate of change of the magnetic flux through the wire. The induced EMF is also proportional to the area of the wire perpendicular to the magnetic field.

Step 3: Turn the switch on. The induced EMF is measured. The induced EMF is proportional to the rate of change of the magnetic flux through the wire. The induced EMF is also proportional to the area of the wire perpendicular to the magnetic field.

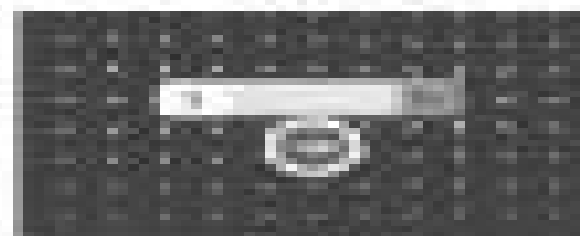


Figure 1

Figure 1

Figure 1

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Michael Hoelscher



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