

Electric Motor Experiment Lab Report

4 pages | 891 words

Abstract

The goal of this experiment is to build a simple electric motor and observe its operation. The independent variable is the battery charge (1.5 V), and the dependent variable is the speed at which the motor spins. It is hypothesized that there will be a positive correlation between voltage and motor speed, with higher voltage resulting in a faster spin.

Introduction

Electric motors are essential devices used in various applications, from powering household appliances to driving industrial machinery. Understanding the principles behind electric motors is crucial for comprehending electromagnetism and its practical applications. The objective of this experiment is to construct a basic electric motor and investigate its functionality. The independent variable in this experiment is the battery charge, set at a constant 1.5 volts. The dependent variable is the speed at which the motor spins. It is anticipated that increasing the voltage will lead to a faster rotation of the motor.

Materials and Methods

The materials used in this experiment include:

- Magnet wire
- Magnet
- Two paper clips
- 1.5 V battery
- Two push pins
- Jumper cables
- Small pliers
- Support base (e.g., an old textbook)
- Sandpaper

The procedure for constructing the electric motor is as follows:

1. Curl the magnet wire around the battery to form a coil, leaving tails at each end.
2. Use sandpaper to remove the clear coating from the ends of the magnet wire.
3. Bend the paper clips to create supports for the magnet wire tails, referred to as "armature arms."
4. Fasten the paperclip stands to the support base using push pins.
5. Place the magnet directly under the coil.
6. Attach jumper cables to each end of the battery holder, with the other ends connected to the armature arm supports.
7. Give the motor an initial spin to test its functionality.

Results

The results of the experiment indicated that the motor did not perform as expected. Instead of spinning consistently upon connecting the battery, it required a tap to initiate motion. Even then, it spun for only a brief period before stopping. Additionally, attempts to make the motor spin in reverse were unsuccessful.

Sources of Error

Several sources of error may have contributed to the unexpected results:

- Inconsistent wrapping of the wire around the battery, leading to uneven coil formation.
- The battery may not have been fully charged, affecting its ability to provide sufficient power to the motor.
- The experiment may have been conducted on an unstable surface, impacting the motor's stability.
- Issues related to the positioning of the magnet could have interfered with the motor's performance.

Discussion

The experiment's results deviated from the expected outcome, as the motor did not spin consistently when connected to the 1.5 V battery. The need to tap the motor to initiate motion suggests that additional factors or issues hindered its operation. While the experiment supported the hypothesis that the battery would cause the motor to spin, the observed behavior did not align with conventional expectations. One potential source of error was the inconsistent wrapping of the wire around the battery, leading to an uneven coil shape. This could have disrupted the motor's balance and hindered its ability...

Electric Motor Experiment Report

Mark Steyvers



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