

Experiment 9: Electromagnetic Induction

I. Using PHet to learn about electromagnetic induction

- A. In the folder for this experiment on the D2L site, download the file `faradaysLaw.jar`. This is another simulation from our friends at PhET - University of Colorado. Become acquainted with the simulation by moving the bar magnet around.
- B. Make sure the 1 coil radio button is pressed and that the magnetic field lines are showing. The voltage meter shows a positive and negative sign which represents the direction of the current flowing in the wires.
- C. With the North side of the magnet on the left, place the bar magnet such that its center is in the center of the coil as shown below. Leave it there motionless for 5 seconds.



- D. What is the reading on the voltage meter and is the bulb bright? Now click on the bar magnet, and at a steady pace, move the magnet to the right just outside of the coil as shown below.



- E. What happened on the voltage meter and to the light bulb while the motion was taking place? What was the sign of the current shown on the voltage meter? What happened to the voltage meter and light bulb once the magnet was at rest on the outside of the coil. Procedures D and E simulated the upper left situation from Figure 1 in the pre-lab.
- F. Repeat the procedure for the other three scenarios in Figure 1, making sure to record the sign of the current induced and the light bulb's reaction to the movement.
- G. What can be said about the motion that is required to turn the light bulb on?
- H. If you look at equation (1) in the introduction, what variable in that equation takes into account the motion of the bar magnet and why?

Checkpoint 1! Please have your lab notebook checked before moving on to the second activity to be sure you have collected enough data to justify your claim.

Electricity And Magnetism Phet Lab Answers

Jiyuan Zhang



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Table of Contents Electricity And Magnetism Phet Lab Answers

1. Understanding the eBook Electricity And Magnetism Phet Lab Answers
 - The Rise of Digital Reading Electricity And Magnetism Phet Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Electricity And Magnetism Phet Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electricity And Magnetism Phet Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electricity And Magnetism Phet Lab Answers
 - Personalized Recommendations
 - Electricity And Magnetism Phet Lab Answers User Reviews and Ratings
 - Electricity And Magnetism Phet Lab Answers and Bestseller Lists
5. Accessing Electricity And Magnetism Phet Lab Answers Free and Paid eBooks
 - Electricity And Magnetism Phet Lab Answers Public Domain eBooks
 - Electricity And Magnetism Phet Lab Answers eBook Subscription Services
 - Electricity And Magnetism Phet Lab Answers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Electricity And Magnetism Phet Lab Answers Compatibility with Devices
 - Electricity And Magnetism Phet Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electricity And Magnetism Phet Lab Answers
 - Highlighting and Note-Taking Electricity And Magnetism Phet Lab Answers
 - Interactive Elements Electricity And Magnetism Phet Lab Answers
8. Staying Engaged with Electricity And Magnetism Phet Lab Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electricity And Magnetism Phet Lab Answers
9. Balancing eBooks and Physical Books Electricity And Magnetism Phet Lab Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electricity And Magnetism Phet Lab Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electricity And Magnetism Phet Lab Answers
- Setting Reading Goals Electricity And Magnetism Phet Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electricity And Magnetism Phet Lab Answers
- Fact-Checking eBook Content of Electricity And Magnetism Phet Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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