

Activity A: Electromagnetic fields

Get the Gizmo ready:

- Turn on **Show electric field at sensor**.
- Click **Reverse** to move the magnet down and set the **Speed** to 10 cm/s.



STEFAN ROGGENDORF 4/8/24

Introduction: When electric current runs through a wire, it induces a **magnetic field** near the wire. Similarly, **electric fields** can be created in the process of **electromagnetic induction**.

Question: How do magnets induce electric fields?

1. **Observe:** While the magnet is *not* moving, is there any electric field? **Yes**

2. **Sketch:** Click **Forward**, and observe the electric field display. (Note: This display shows a top view of the electric field picked up by the sensor at the top of the SIMULATION pane.) Sketch the electric field at right.

Notice the electric field consists of an array of arrows, or **vectors**. Each vector represents the force on a positive charge located at the base of the vector.

What do you notice? **Each arrow is evenly distanced**



3. **Experiment:** Click **Reverse** and observe the electric field as the magnet moves away.

A. How does changing the direction of the magnet affect the electric field?

The electric field go farther away

B. Increase the **Speed** to 20 cm/s, and then click **Forward**. How does increasing the speed of the magnet affect the strength of the electric field?

The positive charge on the magnet gets stronger

4. **Make a rule:** If you have studied how currents induce magnetic fields, you may recall the **right-hand rule** illustrated at right. For electric currents, the thumb represents the direction of positive charge (I) and the fingers represent the induced magnetic field (B).

To describe the electric field induced by a moving magnet, you can use a "left-hand rule." What do the thumb and fingers of your left hand represent in this case?



Thumb: **The direction of the of the negative charge** Fingers: **The magnetic field**

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Table of Contents Chapter 1 Units and Measurements 3 Chapter 2 Motion in a Straight Line 10 Chapter 3 Motion in a Plane 17 Chapter 4 Laws of Motion 24 Chapter 5 Work Energy and Power 31 Chapter 6 System of Particles and Rotational Motion 39 Chapter 7 Gravitation 47 Chapter 8 Mechanical Properties of Solids 55 Chapter 9 Mechanical Properties of Fluids 62 Chapter 10 Thermal Properties of Matter 69 Chapter 11 Thermodynamics 76 Chapter 12 Kinetic Theory 83 Chapter 13 Oscillations 90 Chapter 14 Waves 98 Chapter 1 Electric Charges and Fields 105 Chapter 2 Electrostatic Potential and Capacitance 113 Chapter 3 Current Electricity 123 Chapter 4 Moving Charges and Magnetism 130 Chapter 5 Magnetism and Matter 138 Chapter 6 Electromagnetic Induction 145 Chapter 7 Alternating Current 153 Chapter 8 Electromagnetic Waves 159 Chapter 9 Ray Optics and Optical Instruments 166 Chapter 10 Wave Optics 174 Chapter 11 Dual Nature of Radiation and Matter 181 Chapter 12 Atoms 188 Chapter 13 Nuclei 194 Chapter 14 Semiconductor Electronics Materials Devices and Simple Circuits 200

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Table of Contents Magnetism And Electromagnetic Induction Answers

1. Understanding the eBook Magnetism And Electromagnetic Induction Answers
 - The Rise of Digital Reading Magnetism And Electromagnetic Induction Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Magnetism And Electromagnetic Induction 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 Magnetism And Electromagnetic Induction Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Magnetism And Electromagnetic Induction Answers
 - Personalized Recommendations
 - Magnetism And Electromagnetic Induction Answers User Reviews and Ratings

- Magnetism And Electromagnetic Induction Answers and Bestseller Lists
- 5. Accessing Magnetism And Electromagnetic Induction Answers Free and Paid eBooks
 - Magnetism And Electromagnetic Induction Answers Public Domain eBooks
 - Magnetism And Electromagnetic Induction Answers eBook Subscription Services
 - Magnetism And Electromagnetic Induction Answers Budget-Friendly Options
- 6. Navigating Magnetism And Electromagnetic Induction Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Magnetism And Electromagnetic Induction Answers Compatibility with Devices
 - Magnetism And Electromagnetic Induction Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Magnetism And Electromagnetic Induction Answers
 - Highlighting and Note-Taking Magnetism And Electromagnetic Induction Answers
 - Interactive Elements Magnetism And Electromagnetic Induction Answers
- 8. Staying Engaged with Magnetism And Electromagnetic Induction Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Magnetism And Electromagnetic Induction Answers
- 9. Balancing eBooks and Physical Books Magnetism And Electromagnetic Induction Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Magnetism And Electromagnetic Induction Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Magnetism And Electromagnetic Induction Answers
 - Setting Reading Goals Magnetism And Electromagnetic Induction Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Magnetism And Electromagnetic Induction Answers
 - Fact-Checking eBook Content of Magnetism And Electromagnetic Induction Answers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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