fields

Activity A:

Electrom agnetic

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

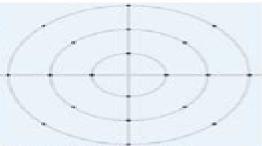
Introduction: When electric current runs through a wire, it induces a magnetic field near the wire. Similarly, electric fields can be created in the process of electromagnetic induction.

Question: How do magnets induce electric fields?

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



- 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 (/) 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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Wan Yong Loo

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English Grammar In Use with Answers and CD ROM Raymond Murphy, 2004-04-15 A fully New Scientist ,2008 updated version of the world's best selling grammar title Sif Physics Ol Tb Wan Yong Loo, 2007 Sandbows and Black Lights Stephen R. Wilk, 2021 In the almost twenty years since I began writing my essays on strange and quirky optics I have been through several employers but in all that time I have stayed a contributing editor for the Optical Society of America No matter where I was during the day I always worked on producing these nuggets of infotainment with some regularity I have always had a backlog of tentative pieces to write but new topics arose just as rapidly so I have never been at a loss with a new piece The newsletter of MIT's Spectroscopy Lab has in that time disappeared so the essays in this volume are either ones that originally appeared in Optics and Photonics News or else have not previously been published in any magazine As I stated in the introduction to How the Ray Gun Got Its Zap my goal was to produce guirky interesting and somewhat humorous essays that had a slyly pedagogical edge Education by stealth as the BBC said In reality I often start off writing one of these to satisfy myself about some minor mystery of optical science or engineering F & S Index United U.S. News & World Report ,1989 **Biennial Report - Wisconsin Educational** States Annual .2007 **Communications Board** Wisconsin. Educational Communications Board, 1971 MAGNETIC FIELDS NARAYAN CHANGDER, 2024-05-16 If you need a free PDF practice set of this book for your studies feel free to reach out to me at cbsenet4u gmail com and I ll send you a copy THE MAGNETIC FIELDS MCQ MULTIPLE CHOICE QUESTIONS SERVES AS A VALUABLE RESOURCE FOR INDIVIDUALS AIMING TO DEEPEN THEIR UNDERSTANDING OF VARIOUS COMPETITIVE EXAMS CLASS TESTS OUIZ COMPETITIONS AND SIMILAR ASSESSMENTS WITH ITS EXTENSIVE COLLECTION OF MCQS THIS BOOK EMPOWERS YOU TO ASSESS YOUR GRASP OF THE SUBJECT MATTER AND YOUR PROFICIENCY LEVEL BY ENGAGING WITH THESE MULTIPLE CHOICE OUESTIONS YOU CAN IMPROVE YOUR KNOWLEDGE OF THE SUBJECT IDENTIFY AREAS FOR IMPROVEMENT AND LAY A SOLID FOUNDATION DIVE INTO THE MAGNETIC FIELDS MCO TO EXPAND YOUR MAGNETIC FIELDS KNOWLEDGE AND EXCEL IN OUIZ COMPETITIONS ACADEMIC STUDIES OR PROFESSIONAL ENDEAVORS THE ANSWERS TO THE OUESTIONS ARE PROVIDED AT THE END OF EACH PAGE MAKING IT EASY FOR PARTICIPANTS TO VERIFY THEIR ANSWERS AND PREPARE EFFECTIVELY

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