

Experiment 9: Electromagnetic Induction

I. Using PHet to learn about electromagnetic induction

- 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.
- 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.
- 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.



- 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.



- 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.
- 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.
- What can be said about the motion that is required to turn the light bulb on?
- 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

Jin-Ying Zhang



Electricity And Magnetism Phet Lab Answers:

Brain-powered Science Thomas O'Brien, 2010 How can a long metal needle pass through a balloon without popping it How can water flow at very different rates through two identical funnels How can a stick placed on a table under several sheets of newspaper and extended over the edge of a table snap when quickly struck without lifting or tearing the paper Author Thomas O'Brien takes these and 30 more science inquiry activities to a higher level in this book for educators who love to surprise and challenge their students with unanticipated results Using experiments based on the science of a discrepant event an experiment or demonstration in which the outcome is not what students expect O'Brien shows how learners can be motivated to reconsider their preconceived notions and think more closely about what has actually occurred and the underlying scientific explanations What makes this volume more valuable than a mere activity book is the addition of a science education component to the extensive science content found in each activity Each discrepant event is shown to be analogous to a pedagogical principle Speaking directly to teachers O'Brien writes Your participation as teacher as learner experimenter rather than simply passive reader in these minds on activities will lead you to question and help you to revise your implicit assumptions about the nature of science teaching and learning At the same time you will develop expertise with activities that you can use with your own students The dual purpose activities thus allow you to unlock two doors with one key the doors to your own learning and to your students learning The detailed analogies between the activities and science learning make the book an ideal resource for middle and high school teachers science teacher educators and their preservice students and professional development specialists alike This thorough and thought provoking text includes more than 200 up to date internet resources as well as extensions to each of the physical science biology and chemistry activities bringing the total number of inquiry activities to nearly 120 Most important the author reminds teachers that the study of science is full of surprises and should be both meaningful and fun for students

Technology and Innovation in Learning, Teaching and Education Arsénio Reis, João Barroso, Paulo Martins, Athanassios Jimoyiannis, Ray Yueh-Min Huang, Roberto Henriques, 2023-01-01 This book constitutes the proceedings of the Third International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2022 was held in Lisbon Portugal in August September 2022 The 21 full papers and 18 short paper presented in this volume were carefully reviewed and selected from 80 submissions The papers are organized in the following topical sections Emergent technologies in education Online learning and blended learning Computer science education and STEM Digital tools and STEM learning ICT and critical thinking in higher education Digital transformation in higher education Artificial Intelligence in Education Announcer, 2004 **The Advancing World of Applied Electromagnetics** Akhlesh Lakhtakia, Cynthia M. Furse, Tom G. Mackay, 2024-04-08 This book commemorates five decades of research by Professor Magdy F Iskander Life Fellow IEEE on materials and devices for the radiation propagation scattering and applications of electromagnetic waves chiefly in the MHz THz frequency range as

well on electromagnetics education This synopsis of electromagnetics stemming from the life and times of just one person is meant to inspire junior researchers and reinvigorate mid level researchers in the electromagnetics community The authors of this book are internationally known researchers including 12 IEEE fellows who highlight interesting research and new directions in theoretical experimental and applied electromagnetics Provides a single source reference to many of the most significant developments of the past 5 decades in theoretical experimental and applied electromagnetics Offers readers in each sub discipline discussed current research trends the state of the art the chief tools needed in that area and the vision of a research leader for that area Includes content of particular interest in Antennas and Propagation as well as Microwave Theory and Techniques

2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes

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Argument-driven Inquiry in Physics Todd Hutner, Victor Sampson, Daniel FitzPatrick (Clinical assistant professor of mathematics), 2020 This book is divided into 5 sections Section 1 includes two chapters the first chapter describes the ADI instructional model and the second chapter describes the development of the ADI lab investigations and provides an overview of what is included with each investigation Sections 2 4 contain the 17 lab investigations Each investigation includes three components Teacher Notes a Lab Handout and Checkout Questions Section 5 consists of five appendixes that include standards alignment matrixes an overview of the CCs and the NOSK and NOSI concepts that are a focus of the lab investigations options in tabular format for implementing an ADI investigation over multiple 50 minute class periods options for investigation proposals which students can use as graphic organizers to plan an investigation and two versions of a peer review guide and teacher scoring rubric one for high school and one for AP

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Introduction To Electricity And Magnetism: Solutions To Problems John Dirk Walecka,2019-03-12 The previously published book Introduction to Electricity and Magnetism provides a clear calculus based introduction to a subject that together with classical mechanics quantum mechanics and modern physics lies at the heart of today s physics curriculum The lectures although relatively concise take one from Coulomb s law to Maxwell s equations and special relativity in a lucid and logical fashion That book contains an extensive set of accessible problems that enhances and extends the coverage As an aid to teaching and learning the present book provides the solutions to those problems **Electricity and Magnetism :**

Solutions Manual Berkeley Physics Course. Vol. 2,Edward M. Purcell,1965 **Prentice Hall Science Explorer** Michael J. Padilla,2002 **Questions and Answers about Electricity** Edward Trevert,Arthur Eugene Watson,1892 **Electricity**

and Magnetism E. R. Dobbs,2013-03-13 Electromagnetism is basic to our understanding of the properties of matter and yet is often regarded as a difficult part of an under graduate physics course In this book answers are developed from first principles to such questions as What is electricity What is electromagnetism Why are some materials magnetic and others non magnetic What is magnetism Physics answers these questions in two related ways On the one hand the classical explanation is in terms of classical concepts electric charge q electric and magnetic fields E and B and electric currents On the other hand the microscopic or atomic explanation is in terms of quantum concepts electrons nuclei electron orbits in atoms electron spin and photons Microscopic explanations underlie classical ones but do not deny them The great triumphs of classical physics are mechanics gravitation thermodynamics electromagnetism and relativity Historically they began at the time of Newton seventeenth century and were completed by Maxwell nineteenth century and Einstein early twentieth century Microscopic explanations began with J J Thomson s discovery of the electron in 1897 For most physical phenomena it is best to seek a classical explanation first especially phenomena at room temperature or low energy when quantum effects are small Although this text is primarily concerned with classical explanations in a logical self consistent sequence they are related to microscopic quantum explanations at each stage Questions in Electricity and Magnetism ,1919 Answers to Problems in Principles of Physics Francis Weston Sears,1946* *Electricity and Magnetism* Herbert D. Peckham,1973

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