#### Activity A: Observing induction

#### Get the Gizmo ready:

Set the Current to 0 amps.



Goal: Use compasses to determine the direction of magnetic field induced by a current in a wire.

Predict: Place the compasses in a circle around the wire as shown at right.
What do you think will happen as you slowly drag the Current slider all the
way to the right?

There will be a change in the needles' directions.

2. Test: Use the Gizmo to test your prediction. Describe the results:

They turned anticlockwise.

3. Observe: Look at the Front view.

In which direction is the current moving through the wire?

Up

(Note: By convention, the current direction shown is the direction of positive charge. In reality, electrons move in the opposite direction through the wire.)

4. <u>Predict</u>: Scientists use the <u>right-hand rule</u> to predict the direction of an <u>induced magnetic field</u>—or a magnetic field created by a current. To use the right-hand rule, position your right hand so that the thumb points in the direction of the current. The magnetic field lines wrap around the wire in the same direction as the fingers of your right hand.



If the current was pointed down, will the induced magnetic field be clockwise or

counterclockwise?

Clockwise

- Test: Set the Current to -60 amps.
  - A. In which direction is the current now moving through the wire?
  - B. What is the direction of the induced magnetic field?

Clockwise

Down

 On your own: Use a battery, wire, and small compass to demonstrate magnetic induction. Describe your results in your science journal or notebook.

# **Answer To Stephen Murray Magnetic Induction**

**Kentucky Academy of Science** 

## **Answer To Stephen Murray Magnetic Induction:**

Nuclear Science Abstracts ,1972 Smart Structures and Materials ,2002 **Mathematical Modelling in Science** and Technology Xavier J.R. Avula, Rudolf E. Kalman, Anthanasios I. Liapis, 2014-05-09 Mathematical Modelling in Science and Technology The Fourth International Conference covers the proceedings of the Fourth International Conference by the same title held at the Swiss Federal Institute of Technology Zurich Switzerland on August 15 17 1983 Mathematical modeling is a powerful tool to solve many complex problems presented by scientific and technological developments This book is organized into 20 parts encompassing 180 chapters The first parts present the basic principles methodology systems theory parameter estimation system identification and optimization of mathematical modeling. The succeeding parts discuss the features of stochastic and numerical modeling and simulation languages Considerable parts deal with the application areas of mathematical modeling such as in chemical engineering solid and fluid mechanics water resources medicine economics transportation and industry The last parts tackle the application of mathematical modeling in student management and other academic cases This book will prove useful to researchers in various science and technology fields Scientific and Technical Aerospace Reports ,1995 **Cumulated Index Medicus**, 1981 Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office, 2000 **Lasers and Masers: a Continuing** Bibliography United States. National Aeronautics and Space Administration, 1965 Mathematical Reviews .2001 Official Gazette of the United States Patent Office United States, Patent Office, 1953 Research in Progress, 1965 A Selected Listing of NASA Scientific and Technical Reports for ..., 1959 **Index of NACA Technical Publications** United States. National Advisory Committee for Aeronautics, 1957 **Index of N A S A Technical Publications** United States. National Aeronautics and Space Administration, 1958 Index of NASA Technical Publications ,1959 The Neuropsychology of Mental Illness Stephen J. Wood, Nicholas B. Allen, Christos Pantelis, 2009-10 Describes neuropsychological approaches to the investigation description measurement and management of a wide range of mental illnesses God Under Investigation Peter Andreyevich, 2015-03-22 Looking for direct intellectual access to God by scientific means is rather doomed to fail Yet we have a right to check if man in their scientific investigations has not come close to such borders of cognition beyond which one can see areas which do not belong to cognizable world usually defined as metaphysical transcendental or spiritual If we find such a place this is as if we knocked on God's window In his search for plausible ways to this window the Author analyzes extensive evidence with reference to quantum mechanics theory of relativity theory of evolution genetics and cognitive science Of course any attempt to give an objective verdict must lead to a catastrophe But what really matters is not a verdict but the fact that the investigation continues The book will be enjoyed by all those who have capacity to reflect upon the key philosophical question why is there something rather than nothing If you think this book is worth of reading you can confirm this opinion with the use of the bank account

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