

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.

1. 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. Predict: Scientists use the **right-hand rule** to predict the direction of an **induced magnetic field**—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



5. 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

6. 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

**United States. National Advisory
Committee for Aeronautics**



Answer To Stephen Murray Magnetic Induction:

Smart Structures and Materials ,2002 *Nuclear Science Abstracts* ,1972 **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
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