

# Lab 8: Electromagnetic induction

## **Purpose:**

We did this experiment to understand how the number of turns and magnetic fields would affect the induced voltage, and to build a complete square constructor and see how different coils work in magnetic fields and how it affects the induced voltage.

*Part I. Shape of the magnetic field around a permanent magnet and a solenoid coil electromagnet:*

## **Procedure:**

1. Turn the current and voltage all the way down on the DC power supply. Then connect the DC power supply to the 1600-turn solenoid coil.
2. Lay the coil on its side and lay a piece of cardboard flat on top of the coil.
3. Shake a small amount of iron filings evenly over the cardboard, then tap the edge of the cardboard gently to allow the filings to settle.
4. Visualize the field line then turn off the power supply and put the iron filings back in the bottle.
5. Place the permanent magnet under the cardboard and sprinkle more filings as necessary to see the magnetic field of the permanent magnet.

## **Question:**

1. The shape of the magnetic field should be the same for both types of magnets. Did both of your magnets create roughly the same shape field?

*Both of our magnets created similar magnetic fields but there was a little difference due to an error of not adding enough iron filing, but they were very similar.*

*Part II. Using magnetic flux to induce emf in a coil:*

## **Procedure:**

1. Turn on the interface and plug in the voltage sensor. Attach the red and black connectors from the voltage sensor to the 200-turn coil.
2. Open capstone and select the voltage sensor then set the sampling rate up to 200hz.
3. Create a graph of Voltage vs. Time.
4. Hold the magnet about 2 cm above the coil, Hit the Record button and drop the magnet through the coil.
5. Record the peak values.

# Induction Lab Study Guide For Final Exam

**RC Schank**



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