LabNotebook

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1 Objectives

Our group had 4 tasks: induction, Meissner, Faraday effect, and Hall effect. This day, the group did the last task - the Hall effect.

2 Setup

Each station was set up beforehand properly, with a knowledgeable TA available for help. This time, the Hall effect station was fixed. Luckily, Bryan replaced the Germanium sample and fixed the issue.

2.1 Materials

We used a sample of Germanium to observe the Hall effect.

2.2 Tools

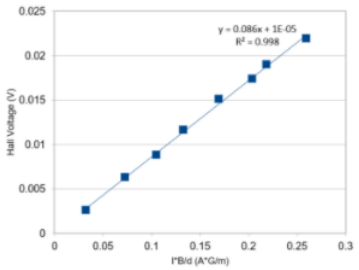
We used a gaussmeter to measure magnetic field strength. We also used an ammeter to measure current while utilizing an electromagnet.

3 Procedure

We measured the current of a circuit while moving Germanium in and out of a magnetic field. The data recorded showed changes in current due to the Hall effect.

4 Results

The data was plotted below.



5 Observations

The linearization of our data is almost perfect. This verifies the equation we were given to explain the Hall effect with.