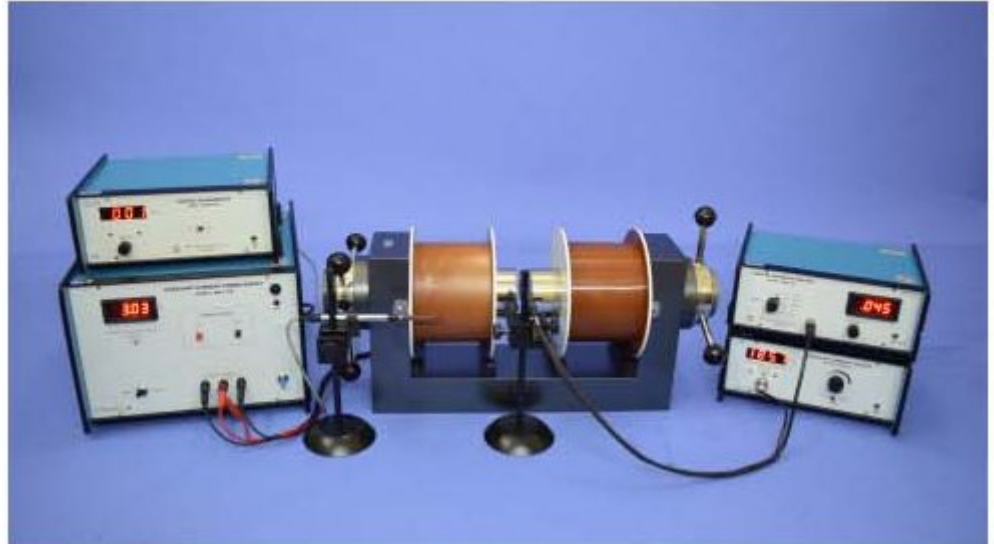


1. How is Hall's coefficient related with carrier concentration?
2. On what factors does the sign of the Hall's coefficient depend?
3. What is the sign of Hall Coefficient for an intrinsic semiconductor?
4. Is it possible to measure Hall's coefficient for metals?
5. Why is the Hall coefficient of semiconductors many orders of magnitude greater than that of metals?
6. How is Hall's coefficient related to the Hall's Voltage (V_H) and the thickness (t)? Why should the sample be thin?
7. In what units is Hall's coefficient measured in?
8. Determine carrier concentration, electrical conductivity, and mobility of charge carriers. How are they related?
9. What are some of the requirements for a sample to be used for the determination of Hall's Coefficient?
10. Explain the increase of the resistance of the sample with the increase in magnetic field.
11. Define hall coefficient.
12. How does mobility depend on electrical conductivity?
13. Define Hall angle.
14. Which type of charge has greater mobility?
15. What is the effect of temperature on Hall coefficient of a lightly doped semiconductor?
16. Do the holes actually move?
17. Does the Hall coefficient depend on the dimensions of the sample?



Manas Sharma

I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

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