

## Hall Effect Experiment Viva Questions

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### Hall Effect Experiment Viva Questions

1Q: What hall effect experiment signifies? 2Q: What do you understand from Lorentz's force? When a charged particle is placed or moving in the presence of the electric and magnetic field, the total forces due to these fields on the charged particle known as Lorentz force.

### Hall Effect Experiment and 10 Viva Questions

Q.What is Hall Effect? A.When a current carrying conductor is placed in a magnetic field mutually perpendicular to the direction of current a potential difference is developed at right angle to both the magnetic and electric field.This phenomenon is called Hall effect. Q.Define hall co-efficient. A.It is numerically equal to Hall electric field induced in...

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## Hall Effect - Engineering Physics Viva

The Hall Effect experiment. The Hall Effect experiment is explained very briefly (I just tried to make it brief). In general, we ask our students to find the Hall Voltage and Hall Coefficient. So for this purpose, the knowledge of the apparatus is must, like:

## Hall Effect Experiment in the Physics Lab | BSc | BTech ...

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.

## Viva Questions for HALL Effect - BragitOff.com

Hello friends welcome to my blog .today I am going to say about Viva questions which are commonly asked in experiments during lab evaluation .so let's start our topic . 1.)who introduced the concept of hall effect ?

## Physics Viva questions

Hall effect experiment viva and theory ... 1000 00 10000000 questions 10000 solved 100 unsolved 1000 1000000 10000 100 ... Hall effect ...

## Hall effect experiment viva and theory

p-type germanium Hall effect wafers? Q6: What do the red and black inks on the samples represent? n-type or p-type germanium Hall Effect wafers? Explain how you can make the conclusion. Remark: 1. The current flowing in the sample can't exceed 50mA. 2. Be careful to utilize the n-type & p-type germanium Hall effect wafers and avoid impact. 3. Conversion of the magnetic

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field: 1 Gauss  $\square$   $10^{-4}$  T 4.

## Unit 8 Hall Effect

systems, at very low temperature and large fields, the Hall resistance show a step-like (rather than linear) dependence on B. These steps are completely independent of the type of sample and quantized to values  $h/e^2m$ , where m is an integer. This is the famous Quantum Hall Effect<sup>4</sup>. The fundamental quantum of Hall resistance is  $h/e^2 = 25,813\Omega$  ...

## Hall Effect Experiment - UTK Department of Physics and ...

1.1 The simple theory of the Hall effect Consider a conducting slab as shown in Fig. 1 with length L in the x direction, width w in the y direction and thickness t in the z direction. Figure 1: Geometry of fields and sample in Hall effect experiment. Assume the conductor to have charge carrier of charge q (can be either positive or negative ...

## The Hall Effect - University of Washington

Fig.1 Schematic representation of Hall Effect in a conductor. CCG - Constant Current Generator, J X - current density  $\bar{e}$  - electron, B - applied magnetic field t - thickness, w - width V<sub>H</sub> - Hall voltage . If the magnetic field is applied along negative z-axis, the Lorentz force moves the charge carriers (say electrons) toward the y-direction.

## Hall effect experiment:- Determination of charge carrier ...

hello friends welcome to my blog in this session you will learn about viva questions which will be asked during lab evaluation what are the apparatus required for the experiment setup of frequency of ac main using an electric vibrator ? Ans.)electric vibrator,frictionless pulley, light weight pan, ...

## viva questions on newtons rings

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The Hall effect is the production of a voltage difference (the Hall voltage) across an electrical conductor, transverse to an electric current in the conductor and to an applied magnetic field perpendicular to the current. It was discovered by Edwin Hall in 1879. For clarity, the original effect is sometimes called the ordinary Hall effect to distinguish it from other "Hall effects" which have ...

### **Hall effect - Wikipedia**

8) What is the effect of dielectric when it is placed in an electric field? The net field inside the dielectric gets reduced. 9) What is dielectric break down? The phenomenon due to which dielectric loses its insulating property and behaves like a conductor is called dielectric break down. 10) Define dielectric strength of a dielectric.

### **DEPARTMENT OF ENGINEERING PHYSICS**

Hall effect, development of a transverse electric field in a solid material when it carries an electric current and is placed in a magnetic field that is perpendicular to the current. This phenomenon was discovered in 1879 by the U.S. physicist Edwin Herbert Hall. The electric field, or Hall field, is a result of the force that the magnetic field exerts on the moving positive or negative ...

### **Hall effect | Definition & Facts | Britannica**

Before coming to the answer. First, we understand what is Hall voltage? The Hall effect is the production of a voltage difference (the Hall voltage) across an electrical conductor, transverse to an electric current in the conductor and a magnetic fi...

### **What is the hall voltage for intrinsic semiconductor? - Quora**

The effect is known as Hall Effect. This effect is very useful in determining- ... Before starting the experiment, check the gauss meter is showing zero value. For this put the probe in separate place and switch on the gauss meter, it will show zero meter. (2) Ensure that the specimen is located at

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the centre between the pole faces and is ...

### **ITM UNIVERSITY, CSE, SECTION B: PHYSICS EXPERIMENT 4**

□ Experiment Questions: 1. Experimentally find out whether the given diode is made of Germanium or Silicon. Conduct the experiment for obtaining the forward bias VI characteristics of the given diode. If the cut in voltage is 3V, it is Germanium diode. If it is 0.6V, diode is made of silicon.

### **Exp No:1 Diode characteristics Experiment Questions: Viva ...**

About This Quiz & Worksheet. The center of focus on this quiz and worksheet will be on concepts like polarizers, polarization, Malus' Law, and light intensity.

### **Quiz & Worksheet - Polarization of Light & Malus's Law ...**

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