Hall Effect Viva Questions With Answers

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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

~~Hall Effect – Engineering Physics Viva~~
Hall Effect Experiment and Viva Questions: In the hall effect experiment, we determine the hall voltage and hall coefficient. What is the principle of the Hall effect ?When we place a current-carrying semiconductor specimen in the presence of a uniform magnetic field, a potential difference creates between the two faces. For example, If the current is flowing along the +X direction, the magnetic field is along the Y-direction, then the potential difference will be along the Z-direction.

~~Hall Effect Experiment and 10 Viva Questions~~
Viva Questions for HALL Effect. Feb 7, 2017. Manas Sharma. 1. How is Hall's coeffiu000ecient related with carrier concentration? 2. On what factors does the sign of the Hall's coeffiu000ecient depend? 3. What is the sign of Hall Coeu000efficient for an intrinsic semiconductor?

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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 Viva Questions~~
Hall Effect Experiment Viva Questions Unit 8 Hall Effect therefore, he suggested that Hall repeated the experiment At this time, Hall used thin gold foil to accomplish the experiment Finally, in October, 1879, Hall measured the lateral potential difference successfully This effect is the famous Hall Effect Fig 2 the diagram of Hall Effect (the ...

~~Hall Effect Experiment Viva Questions~~
The Hall Effect experiment. For this purpose, the knowledge of the apparatus is must, like: The first one is electromagnet power supply by which we provide the current in an amp to the electric coils (like the solenoid) as a result we get a uniform magnetic field between the two poles of steel which are inserted in the coils already.

~~Hall Effect Experiment in the Physics Lab | BSc | BTech ...~~
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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.. A Hall voltage or Hall effect can also occur across a void or hole in a semiconductor or metal plate, when current is injected via ...

~~Hall effect - Wikipedia~~
The Hall effect can be used also to measure the density of current carriers, their freedom of movement, or mobility, as well as to detect the presence of a current on a magnetic field. The Hall voltage that develops across a conductor is directly proportional to the current, to the magnetic field, and to the nature of the particular conducting material itself; the Hall voltage is inversely proportional to the thickness of the material in the direction of the magnetic field.

~~Hall effect | Definition & Facts | Britannica~~
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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 field: 1 Gauss10−4 T 4.

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