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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.

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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.

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