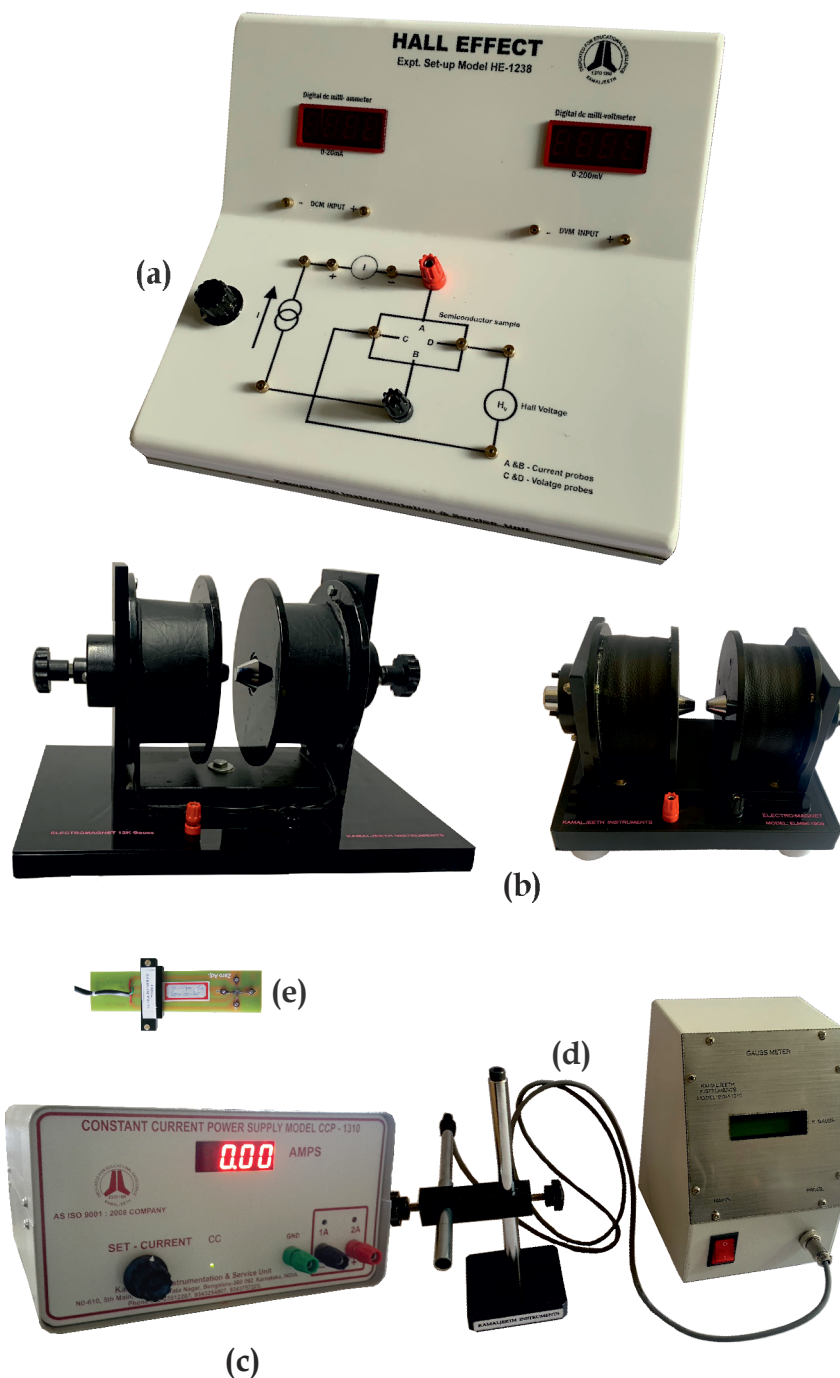


Experiment(s):

1. Observe Hall effect in doped semiconductors and determination of charge density and velocity of charge carriers in the lattice

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-14, No.2, Page-86



Specifications:

a) Hall effect kit: Consists of variable constant current power supply, built in dc digital millivoltmeter and dc digital milliammeter, cabinet made of acrylic,
Rated Input: 220 V/50 Hz
or 110 V/60 Hz
short circuit protected

b) Magnet

HE-201: 100 mm dia magnet with user adjustable pole gap from 1 mm till 20 mm, capable of producing magnetic flux of upto 10K Gauss at 10 mm pole gap

HE-201LC: 50 mm dia magnet with non adjustable pole gap fixed at 10 mm, capable of producing magnetic flux of upto 5K Gauss at 10 mm pole gap

c) Power supply

HE-201: Heavy duty power supply with variable constant current, provided with digital current meter, max 400 W
HE-201LC: Variable constant current power supply, provided with digital current meter, max 60 W

d) Gauss meter: Measures magnetic flux upto 20K Gauss detachable gauss probe

e) Hall probe: HE-201: Available in n-type and p-type mounted on PCB with a holder
HE-201LC:- Available in n-type mounted on PCB with a holder



KAMALJEETH INSTRUMENTS

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3 years manufacturing warranty