HALL EFFECT

1 OBJECTIVE

- To determine the hall voltage developed across the sample material.
- To calculate the hall coefficient of the sample material.

2 REQUIREMENTS

Two solenoids, constant power supply, four-probe digital gauss meter, hall effect apparatus, digital multimeter and hall probe

3 INTRODUCTION

When a magnetic field is applied perpendicular to a current carrying conductor, a voltage is developed across the specimen in a direction perpendicular to both the current and the magnetic field. This phenomenon is called *Hall effect*. The voltage so developed is called the *Hall voltage*.