

Magnetic flux density

$$B = \frac{N\Phi}{l}$$

$$\Phi = BA \cos\theta$$
$$\therefore \Phi = B_{\perp} A$$

$$\Phi = BA \cos\theta$$

Faraday's law of electromagnetic induction

$$\mathcal{E} = -\frac{N\Delta\Phi}{\Delta t}$$

Lenz's law

Fig. 1

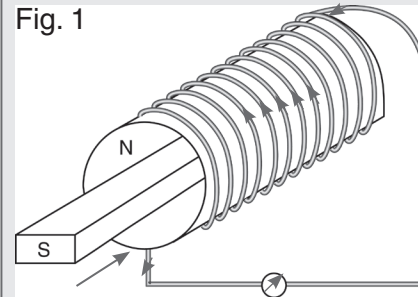
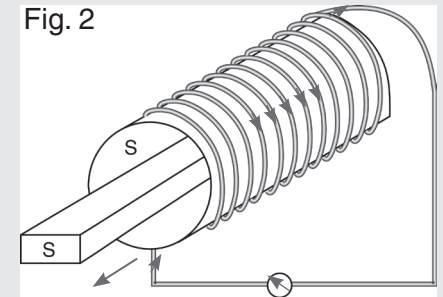


Fig. 2



Strength of induced current

- Right hand rule to determine the direction of the induced current in a solenoid.



ELECTROMAGNETIC INDUCTION

Electromagnetic induction