

## Magnetic terms.

Magnetic field strength  $H$  is measured in units of  $\text{Am}^{-1}$ .

When a current  $I$  flows in a closed circuit it produces a magnetic flux  $\Phi$  phi which is proportional to the current.

The constant of proportionality is called the inductance  $L$ . (units Henry)

$$\text{so } \Phi = LI$$

The magnetic flux  $\Phi$  is the amount of magnetic field (flowing) in an area. (units Wb Weber pronounced Vayber)

Magnetic flux density  $B$  is measured in  $\text{Wbm}^{-2}$  or Tesla.