

Flux per unit area $D = \psi/A$ coulomb/meter²

✚ **Hysteresis loss** = it is the Energy loss as a heat , it is found in transformers core which is core or iron loss

✚ It is having deviation or offset

✚ Core of transformer is made up of materials of narrow hysteresis loops

Because magnetization of material is directly proportional to the area of hysteresis loop

✚ **Flemings left hand rule (for motor)**

When a current carrying conductor placed in a magnetic field, the conductor experienced a force which is perpendicular to the both magnetic field and direction of current

✚ **Flemings right hand rule (for generator)**

When a conductor is forcibly moved in an electromagnetic field, emf is gets induced across the conductor and induced emf causes current to flow

✚ **Kirchoff's current law**

Algebraic sum of all current at any node point or junction of circuit is zero

$$\sum I = 0$$

✚ **Kirchoff's voltage law**

In any close loop network, total voltage around a loop is equal to the sum of all voltage drop within same loop which is equal to zero

$$\sum E + \sum V = 0$$