

Electromotive Force

- It is the influence that moves charge from lower to higher potential despite the electric field forces in the opposite direction. Every complete circuit with a continuous current must include some device that provides emf.

Note:

A complete circuit is a closed loop conductor with an energy source.

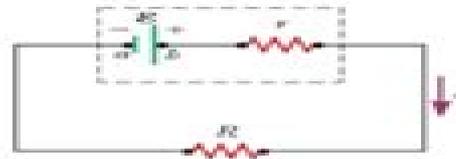
For the ideal source of E,

$$V_{ab} = E = IR$$

where:

V_{ab} = terminal voltage

For real sources,



$$V_{ab} = E - Ir$$

Note:

Internal Resistance (r)

- charge that moves through the material of any real source encounters resistance, denoted by r.
- Batteries and generators have resistance
 - In batteries → due to chemicals
 - In generators → due to wires and other components

but the current, I is still $V_{ab} = IR$ so that

$$IR = E - Ir$$

$$IR + Ir = E$$

$$I(R + r) = E$$

$$I = \frac{E}{R + r}$$

E16 Basic Electricity Dc Circuits

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