

Chapter 21

Circuits: a closed path electrons flow through

Current: flow of electrons from one point to another

$$I = \frac{\Delta Q}{\Delta t}$$

I : current (A) $A = C/s$

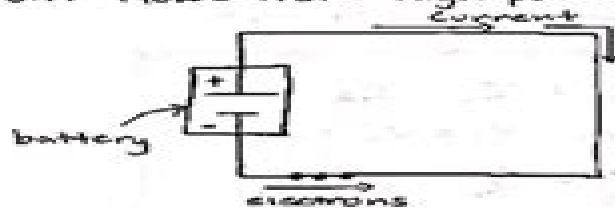
ΔQ : change in charge (C)

Δt : change in time (s)

Battery: device that converts chemical energy to electric energy

→ electrons flow from low potential to high potential ($- \rightarrow +$)

→ current flows from high potential to low potential ($+ \rightarrow -$)



Electromotive Force (e): "emf": voltage produced by 2 terminals in battery

↳ a difference in electric potential (voltage) → NOT a force

→ voltage: difference in electric potential per charge

→ EMF: difference in electric potential per coulomb of charge

↳ chemical energy converted to kinetic energy

Resistance: any force that opposes motion

1) conductors: no resistance → facilitates e^- flow

2) insulators: complete resistance → restricts e^- flow

$$R = \frac{\rho L}{A}$$

R : resistance (Ω)

ρ : resistivity (varies)

L : length of resistor (m)

A : area of resistor (m^2)

↳ when current passes through a resistor, some energy is lost → results in a drop in electric potential of that portion of a circuit

→ voltage drop

Ohm's Law: voltage drop is proportional to resistance & current

$$V = IR$$

V : voltage drop (V)

I : current (A)

R : resistance (Ω)

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Mark Steyvers



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