

Quiz 2: Electric Circuits DL 3,4,5 FNT 3,4

charges flow in an electric circuit \rightarrow Current, $I = \frac{\text{amount of charge}}{\text{time}}$ (see flow rate in a fluid system)



I = current = same/constant

$$I_{in} = I_{out}$$

$$\left(\Delta P = \frac{\Delta PE}{V_0} + \frac{\Delta PE}{V_H} \right) = \frac{I_{pump}}{V_0} - IR$$

$$\Delta(\text{Total Head}) = \frac{I_{pump}}{V_0} - IR$$

Ohm's Law

current I (A = amperes) = flow rate of electric charge = $\frac{\text{charge}}{\text{time}}$

voltage V (V = volts) = electric pressure (electric potential difference) = $\frac{\text{electric energy}}{\text{charge}}$

resistance R (Ω = ohms) = "friction/dissipation" of a resistor

charge q/Q (C = coulombs): $q_e = 1.6 \times 10^{-19} \text{ C}$

Emf \mathcal{E} (V = volts) = electromotive force; electric potential of battery = $\frac{\text{(pump) energy of battery}}{\text{charge}}$

$$\Delta P = \frac{E_{pump}}{V_0} - IR$$

\downarrow \downarrow \downarrow

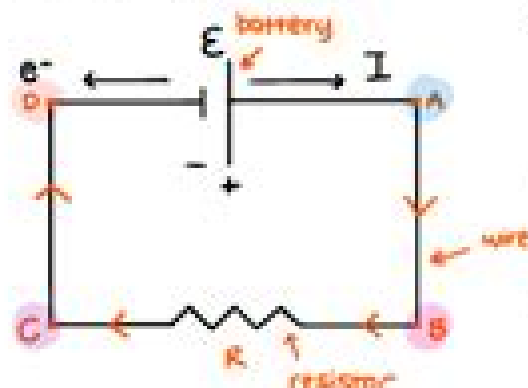
$$\Delta V = \mathcal{E} - IR$$

(Ohm's Law)

Simple Circuits

current (I) flows: $+$ \rightarrow $-$ terminal of the battery (opp. of e^-)

current



Voltage is **gained** through battery

$$\Delta V_{\text{battery}} = V_A - V_D = \mathcal{E} > 0$$

Voltage is **lost** through resistors

$$\Delta V_R = V_C - V_B = IR < 0 \text{ (voltage drop)}$$

no change through a wire

$$\Delta V = V_B - V_A = 0$$

Circuit symbols:

———— wire (I)

—|— battery (\mathcal{E})

—— resistor (R)

—— light bulb (R)

—— switch

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Marco Casella



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