

Module 4 : Electrons, Waves and Photons

Charge and current (4.1)

Charge (4.1.1)

Elementary charge (e)

- $e = 1.6 \times 10^{-19} \text{ C}$
- Electric charge equivalent to charge on proton (with a minus sign it's charge on electron)
- Charges are a multiple of e $\therefore$ charges on objects are quantised
- Electron has charge $-e$
- Proton has charge $+e$

Charge carriers

- Charged particle that moves through material to form electric current, e.g. e^- in metal wire
- 4 main types
 - Electrons (main carrier in wires) ($-1e$)
 - Protons (not used often) ($+1e$)
 - Ions (main carrier in solution)
 - "holes" (mainly in p-type semiconductors)

Charge (Q)

- Physical property, either positive or negative, measured in Coulombs, or as a relative charge
- Unit: **Coulomb (C)** $\Rightarrow$ amount of charge flowing past point in circuit, time 1s and current 1A
- Symbol: **Q**

Current (I)

- Flow of charge passing a fixed point in a circuit per second ($\therefore$ current is the **rate of flow**)
- Movement of electrons in metals; movement of ions in electrolytes
- $1\text{A} = 1\text{C}$ passing point for 1s
- Unit: **Ampere (A)**
- Symbol: **I**
- Measured using ammeters in series $\therefore$ lowest possible resistance to reduce effect on current

Charge, current and time

- $I = \frac{Q}{t}$
- I = current in amps (A); Q = charge transferred in Coulombs (C); t = time in seconds (s)

Conventional current

- Charges/current travels from the positive end of the cell towards the negative end
- Direction in which +ve charges travel, as it's a model to describe electric current in circuit
- The above is regardless of the direction of movement of charge carriers (i.e. electrons/ions)

Electron flow

- Electrons leave from the negative end of the cell towards positive end

Kirchhoff's First Law

- At any point in an electrical circuit, sum of current into that point is equal to sum of current out of that point $\Rightarrow$ electrical charge is conserved
- In parallel, current splits at junctions
- Sum of current going in = sum of current going out
- $\sum_N I_N = 0$ or simply $\sum I = 0$ where I = current (A) (capital sigma Σ signifies a sum in maths notation)
- Current approaching junction defined positive (+)
- Current going away from junction defined negative (-)

Index - definitions
 Bold - important points (occasionally underlined)
 Italics/symbols of quantities
 equations
 Numbers in brackets next to titles and subtitles refer to the chapters and sub-chapters within the specification and textbook that the particular section refers to.

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L Cohen



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