

# 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
- 1A = 1C 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  $\Sigma$  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  
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 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.

# Ocr Physics A Electrons Waves Photons June 2014

**L Darling-Hammond**



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