

Electronics & Magnetism

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FYS01a: Physics 1a

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1 Fundamental Quantities

1.1 Charge

Charge is measured in Coulomb (C). In equations, it's often symbolised with q_n .

1.2 Potential Difference

Potential Difference (alternatively *Voltage*) is the difference in the amount of energy that a charge carrier has between 2 points.

1.3 Flow

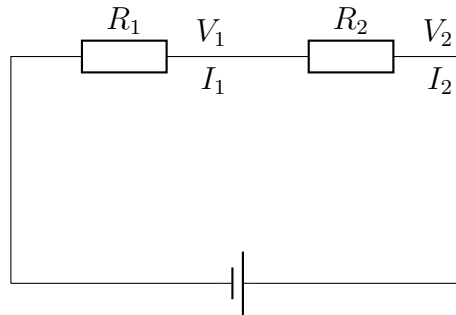
Flow (alternatively *Amperage*), measured in A (*Ampères*), but in equations denoted as I is the amount of charge moving through a certain cross-section per unit of time.

$$I = C \, s^{-1}$$

2 Circuits & Quantities

The structure of a circuit affects how the *Voltage* & *Amperage* behaves.

2.1 Circuits in series



2.2 Circuits in parallel

