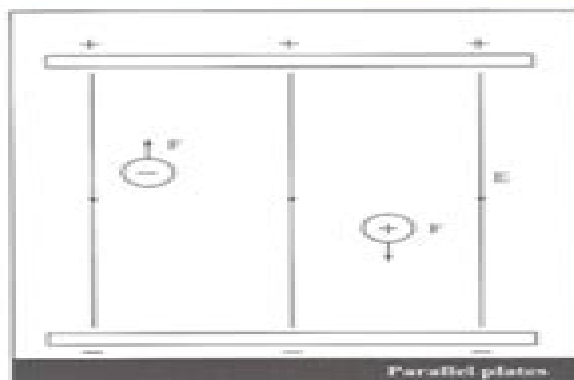


Chapter 9: Charged particles in an electric field

Charged particles in an electric field explained



Notes

Remember the following important principles

The region around a charge or group of charges that can influence another charge placed in that region is known as an electric field. When a charge is in an electric field it experiences a force. The force is a result of the interaction between the electric field and the charge.

The magnitude of an electric field is the size of the force it causes on a charge placed at a point in the electric field.

The relationship between the electric field strength (E) and the force it causes to act on a charge is:

$$E = \frac{F}{q}$$

Where:

F is the force acting on a small charge, q

Electric field strength is a vector with the unit newton per coulomb (N C^{-1}) or volt per metre (V m^{-1}).

Two oppositely charged parallel plates that are close together have an electric field between them that is uniform, except near the edges. A charged particle in the uniform electric field between the plates experiences a force and therefore moves.

You can determine the work done by the electric field in moving the charge a distance d parallel to the field by the relationship:

$$W = Fs = Eqd$$

$$\text{i. e. } W = Eqd$$

where:

W is the work done (joules, J)

E is the electric field strength (N C^{-1})

q is the charge on the particle (coulombs, C)

d is the distance the charged particle moves (metres, m)

also,

$$W = Vq$$

$$Eqd = Vq$$

where:

V is the potential difference through which the charged particle is moved.

Stawa Physics Stage 3

Pauline Bendall

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