

Electromagnetism Notes:

Charged Particles, Conductors and Electric and Magnetic Fields — What happens to stationary and moving charged particles when they interact with an electric or magnetic field?

Investigate and quantitatively derive and analyse the interaction between charged particles and non-ionic electric fields including electric field between parallel charged plates, acceleration of charged particles by the electric field, and work done on the charge.

Electric field between parallel charged plates $E = V/d$:

- Positive particles have vector fields going out of the charge
- Negative particles have vector fields going into the charge
- Inverse vector laws \rightarrow higher magnitude \rightarrow stronger field strength
- uniform electric fields are constant (vector lines equally separated)

Equations:

- E = electric field strength
- V = potential difference of charges
- d = distance in metres
- e.g. Two parallel plates, separated by 5mm, are connected to terminals of 3000V DC supply. Calculate the strength of the field between them:
 - o $E = ?$
 - o $V = 3000$
 - o $d = 5\text{mm} = 5 \times 10^{-3}\text{m}$
 - o $E = V/d$
 - o $= 3000 / 5 \times 10^{-3}$
 - o $= 600\,000\text{ V/m}^{-1}$

Acceleration of charged particles by the electric field:

- $F_{\text{el}} = qE = qV/d = maa$
- e.g. Find the acceleration of an alpha particle between two parallel plates with potential difference 3000V separated by 5mm.
 - o Alpha particle charge $= +2e = 2(1.602 \times 10^{-19}) = 3.204 \times 10^{-19}\text{ C}$
 - o $V = 3000$
 - o $d = 0.005$
 - o $aa = 2qV/d^2 = 2(1.675 \times 10^{-19}) / 2(0.475 \times 10^{-19}) = 6.666 \times 10^{17}\text{ m/s}^2$
 - o $qV/d = maa$
 - o $(3.204 \times 10^{-19} \times 3000) / 0.005 = 1.924 \times 10^{17} \text{ m/s}^2$
 - o $a = 2.97 \times 10^{17} \text{ m/s}^2$

Work done on the charge:

- $W = qV = qEd$
- $EC = 16\text{ mJ/m}^2$

Study Guide Electromagnetism Answers

Arshad Iqbal

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