

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 uniform 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
- More vector lines = higher magnitude \rightarrow stronger field strength
- uniform electric fields are constant (vector lines equally separated)

Equation:

- 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 $= 600\,000 \text{ V/m}^2$

Acceleration of charged particles by the electric field:

- $F_{\text{net}} = qE = qV/d = ma$
- 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 $m = 2p^+ + 2n^0 = 2(1.675 \times 10^{-27}) + 2(1.673 \times 10^{-27}) = 6.696 \times 10^{-27} \text{ kg}$
 - o $qV/d = ma$
 - o $(3.204 \times 10^{-19} \times 3000) / 0.005 = a \times 6.696 \times 10^{-27}$
 - o $a = 2.87 \times 10^{12} \text{ ms}^{-2}$

Work done on the charge:

- $W = qV = qEd$
- $K = \frac{1}{2}mv^2$

Electromagnetism Study Guide Answer

Karen Pao, Frederick Soon



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