

Electrostatics

Charge is associated with mass

$$e = me \quad (e = 1.6 \times 10^{-19} \text{ C})$$

Charge is invariant.

$v = 0 \rightarrow$ produce $\vec{E}$

$v = \text{const} \rightarrow$ produce $\vec{E}$ and $\vec{B}$

$v \neq 0 \rightarrow$ produce E.M.W.

For a moving body, mass $\uparrow$ while charge remains const.

$$\text{Coulomb's law} \quad \boxed{F_0 = \frac{k q_1 q_2}{r^2}}$$

Force always acts along line joining

$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

* $\epsilon_0 \rightarrow$ permittivity of free space

* when complete system put in a medium force becomes

$$\boxed{F_{\text{new}} = \frac{F_0}{k}} \quad F_0 \rightarrow \text{old force}$$

Coulomb's law correctly describes the electric force that binds the electrons of an atom to its nucleus

Vector form

$$\boxed{F = \frac{k q_1 q_2}{r^2} \hat{r}} \rightarrow \boxed{F = \frac{k q_1 q_2}{r^2} \vec{r}}$$

Principle of superposition

$$F_{\text{net}} = F_1 + F_2 + F_3 + \dots$$

Equilibrium of charged particles



$$\frac{k q Q_1}{x^2} = \frac{k q Q_2}{(d-x)^2} \Rightarrow \frac{Q_1}{Q_2} = \frac{x^2}{(d-x)^2}$$



$$\boxed{x_1 : x_2 = \sqrt{Q_1} : \sqrt{Q_2}}$$

Equilibrium of charged particles



$$F_{\text{net}} = 2F \cos \frac{\theta}{2} \\ = 2F \sqrt{\frac{3}{4}} \\ = \sqrt{3} F$$

$F_{\text{net}} \rightarrow$ formula

$$\boxed{F_{\text{net}} = 2F \cos \frac{\theta}{2}}$$

V.V. Imp.

S.H.M concept in charge



$$F_{\text{net}} = F_A - F_B$$

$$= \frac{k Q q}{(d-x)^2} - \frac{k Q q}{(d+x)^2}$$

$$F_{\text{net}} = \frac{k Q q}{(d^2 - x^2)^2} 4dx$$

($x \ll d$)

$$\boxed{F_{\text{net}} = \frac{4k Q q}{d^3} x}$$

$$\boxed{a_{\text{net}} = \frac{4k Q q}{m d^3} x}$$

$$\boxed{\omega = \sqrt{\frac{4k Q q}{m d^3}}}$$

omega
 $T = \frac{2\pi}{\omega}$

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L Cohen



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