

ELECTROSTATICS

charges at rest

1. Charge: "Charge is an intrinsic property of matter. The amount of charge that an object has cannot be changed by changing size shape or form but can be changed by adding or removing electrons or by breaking down atoms." $Q = ne$ Charge is quantized i.e., it is always an integral multiple of elementary charge (unit charge) PKMZ: $Q = 3e$ $[eee]$ * Only n is always a whole no

2. Coulomb's Law: "The magnitude of the force between two point charges (point charges are such charges which have very small size as compared to the distance by which they are separated) is directly proportional to the product of the magnitudes of the charges and inversely proportional to the square of the distance b/w them."

Mathematically:

$F \propto \frac{q_1 q_2}{r^2}$ and $F \propto \frac{1}{r^2}$
 thus $F \propto \frac{q_1 q_2}{r^2}$ or $F = k \frac{q_1 q_2}{r^2}$

Vectorially

$F_{21} = k \frac{q_1 q_2}{r^2} \hat{r}_{12}$ [w/ respect to diagram]

$F_{12} = k \frac{q_1 q_2}{r^2} \hat{r}_{21}$ [w/ respect to diagram]

w/ vectors \hat{r}_{12} and \hat{r}_{21} are in opposite directions thus

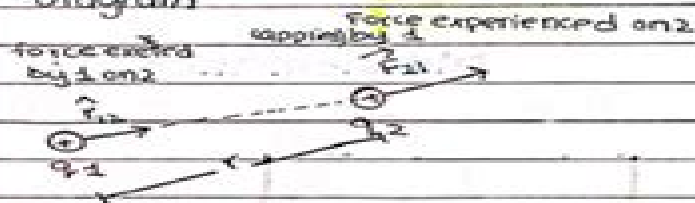
$\hat{r}_{12} = -\hat{r}_{21}$

or (action reaction are equal but opposite)

$\vec{F}_{21} = -\vec{F}_{12}$

$k \frac{q_1 q_2}{r^2} \hat{r}_{12} = -k \frac{q_1 q_2}{r^2} \hat{r}_{21}$

Diagram



(a)

\hat{r}_{12} : tells us the direction in which force is applied i.e. intrinsic case indicates that force is applied in the direction from q_1 to q_2 .

\vec{F}_{21} : Tells us by which charge the force is experienced under the influence of the other q_1 here indicates that the force is experienced by charge q_2 under the influence of charge q_1 .

Physics 12 Electrostatics Notes

B Lingard



Physics 12 Electrostatics Notes:

Physics 12 Electrostatics Notes Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physics 12 Electrostatics Notes**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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