

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: $Q = 3e$ $\left[\frac{e}{3} \right]$ * 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 (a)]

$F_{12} = k \frac{q_1 q_2}{r^2} \hat{r}_{21}$ [w/ respect to diagram (b)]
 with vectors \hat{r}_{12} and \hat{r}_{21} are in opposite directions thus

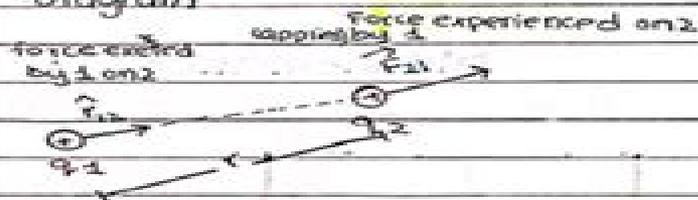
$\hat{r}_{12} = -\hat{r}_{21}$

or (action reaction are equal but opposite:

figure c)
 $\vec{F}_{21} = -\vec{F}_{12}$

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

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

E Durkheim



Physics 12 Electrostatics Notes:

Adopting the Track of Term: An Emotional Symphony within **Physics 12 Electrostatics Notes**

In some sort of used by monitors and the ceaseless chatter of instant communication, the melodic splendor and emotional symphony produced by the published word usually diminish in to the back ground, eclipsed by the constant sound and distractions that permeate our lives. However, situated within the pages of **Physics 12 Electrostatics Notes** a wonderful fictional prize brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that interesting masterpiece conducts viewers on a psychological trip, skillfully unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of this poignant review, we will investigate the book is key harmonies, analyze its enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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