

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) PKM2: $Q = 3e$ $[eee]$ * 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 (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

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Table of Contents Physics 12 Electrostatics Notes

1. Understanding the eBook Physics 12 Electrostatics Notes
 - The Rise of Digital Reading Physics 12 Electrostatics Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics 12 Electrostatics Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics 12 Electrostatics Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics 12 Electrostatics Notes
 - Personalized Recommendations
 - Physics 12 Electrostatics Notes User Reviews and Ratings
 - Physics 12 Electrostatics Notes and Bestseller Lists
5. Accessing Physics 12 Electrostatics Notes Free and Paid eBooks
 - Physics 12 Electrostatics Notes Public Domain eBooks
 - Physics 12 Electrostatics Notes eBook Subscription Services
 - Physics 12 Electrostatics Notes Budget-Friendly Options
6. Navigating Physics 12 Electrostatics Notes eBook Formats

- ePub, PDF, MOBI, and More
 - Physics 12 Electrostatics Notes Compatibility with Devices
 - Physics 12 Electrostatics Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics 12 Electrostatics Notes
 - Highlighting and Note-Taking Physics 12 Electrostatics Notes
 - Interactive Elements Physics 12 Electrostatics Notes
 8. Staying Engaged with Physics 12 Electrostatics Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics 12 Electrostatics Notes
 9. Balancing eBooks and Physical Books Physics 12 Electrostatics Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics 12 Electrostatics Notes
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physics 12 Electrostatics Notes
 - Setting Reading Goals Physics 12 Electrostatics Notes
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physics 12 Electrostatics Notes
 - Fact-Checking eBook Content of Physics 12 Electrostatics Notes
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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