



Electric Charges and fields

Charges

Positive charges

Negative charges

Like charges repel each other

Unlike charges attract each other

Properties of charge

Quantisation

$$q = ne$$

where, $n = 0, 1, 2, \dots$
 e is an charge of electron.

Additivity

$$q_{\text{net}} = \sum q_i$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

Conservation

total charge of an isolated system is constant



Coulomb's law

$$F = K \frac{q_1 q_2}{r^2}$$

Vector form,

$$\vec{F}_{12} = K \frac{q_1 q_2}{r_{12}^2} \hat{r}_{12}$$

$$K = \frac{1}{4\pi\epsilon_0} = 9 \times 10^9 \text{ N-m}^2/\text{C}^2$$

$$\left[\hat{r}_{12} = \frac{\vec{r}_{12}}{r_{12}} \right]$$



Principle of Superposition,

$$\vec{F}_1 = \vec{F}_{12} + \vec{F}_{13} + \vec{F}_{14} + \dots + \vec{F}_{1n}$$

$$\vec{F}_1 = \frac{q_1}{4\pi\epsilon_0} \sum_{i=2}^n \frac{q_i}{r_{1i}^2} \hat{r}_{1i}$$

$$\epsilon_0 = 8.854 \times 10^{-12} \text{ C}^2/\text{N-m}^2$$



Electric field

$$\vec{E} = \frac{\vec{F}}{q_0}$$

$$\vec{E} = K \frac{q}{r^2}$$

or

$$\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2}$$

q_0 = test charge



Vector form,

$$\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{q}{r^2} \hat{r}$$



Relative Permittivity

$$\epsilon_r = \frac{\epsilon}{\epsilon_0}$$

ϵ_0 = Permittivity in free space
 ϵ = Permittivity in medium

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Table of Contents Physcs Paper20grade 12

1. Understanding the eBook Physcs Paper20grade 12
 - The Rise of Digital Reading Physcs Paper20grade 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Physcs Paper20grade 12
 - 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 Physcs Paper20grade 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physcs Paper20grade 12
 - Personalized Recommendations
 - Physcs Paper20grade 12 User Reviews and Ratings
 - Physcs Paper20grade 12 and Bestseller Lists

5. Accessing Physcs Paper20grade 12 Free and Paid eBooks
 - Physcs Paper20grade 12 Public Domain eBooks
 - Physcs Paper20grade 12 eBook Subscription Services
 - Physcs Paper20grade 12 Budget-Friendly Options
6. Navigating Physcs Paper20grade 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physcs Paper20grade 12 Compatibility with Devices
 - Physcs Paper20grade 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physcs Paper20grade 12
 - Highlighting and Note-Taking Physcs Paper20grade 12
 - Interactive Elements Physcs Paper20grade 12
8. Staying Engaged with Physcs Paper20grade 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physcs Paper20grade 12
9. Balancing eBooks and Physical Books Physcs Paper20grade 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physcs Paper20grade 12
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physcs Paper20grade 12
 - Setting Reading Goals Physcs Paper20grade 12
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physcs Paper20grade 12
 - Fact-Checking eBook Content of Physcs Paper20grade 12
 - 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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