

# ELECTROSTATICS

## ELECTROSTATICS

The study of properties of stationary electric charges and their effects. Electrostatic phenomena arises from the force between electric charges described by Coulomb's law.

### Basic Properties of Charges

- Charges are quantised in nature
- Total charge of an isolated system is conserved
- Charges are additive in nature

### Electric Dipole

Every dipole is associated with a dipole moment  $\vec{p}$ , whose magnitude is equal to the product of the magnitude of either charge ( $q$ ) and the distance  $2a$  between the charges, i.e.,  $\vec{p} = q \times 2a$

The net force experienced by the dipole is zero. Due to torque so produced, dipole itself is in the direction of electric field.  
 $\vec{\tau} = \vec{p} \times \vec{E}$  or  $\tau = pE \sin \theta$

### Charge

### Electric Field

The force experienced by a unit positive charge placed at that point.

$$\vec{E} = \frac{\vec{F}}{q_0} = \frac{kq}{r^2} \hat{r}$$

1 N/C =  $\frac{1 \text{ newton}}{1 \text{ coulomb}} = \frac{1 \text{ volt}}{1 \text{ metre}}$   
Dimension:  $[E] = [MLT^{-2}A^{-1}]$

### Electric Flux

Flux of electric field  $\vec{E}$  through any area  $A$  is defined as:  
 $\Phi = EA \cos \theta$   
or  $\Phi = \vec{E} \cdot \vec{A}$   
S.I. unit is Vm  
 $\frac{Nm^2}{C}$

### Gauss's Theorem

Total normal electric flux out of a closed surface  $S$  is equivalent to  $1/\epsilon_0$  times the charge ( $q$ ) contained inside the surface.  
 $\Phi_E = \oint_S \vec{E} \cdot d\vec{A} = \frac{q}{\epsilon_0}$

### Basic Characterisation

- Field lines start from positive charges and end at negative charges.
- Electrostatic field lines do not form any closed loops.
- Two field lines can never cross each other.

### Coulomb's Law

For two stationary point charges  $q_1$  and  $q_2$  are kept at a distance  $r$ ,  
 $\vec{F} = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2} \hat{r}$  (Vector) or  $F = \frac{kq_1 q_2}{r^2}$  (Scalar)  
 $k = \frac{1}{4\pi\epsilon_0}$

### Capacitor and Capacitance

Capacitor is used to store electrical energy. Capacitance is defined as the ratio of the charge stored to the potential between the plates.  
 $C = \frac{Q}{V}$

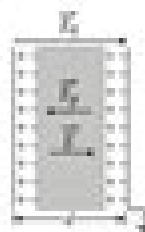
### Combination of Capacitors

Series combination  
 $\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} + \frac{1}{C_4}$

Parallel combination  
 $C_p = C_1 + C_2 + C_3 + C_4$

Parallel plate capacitor with dielectric slab of thickness  $t$  with dielectric constant  $K$ .

$$C = \frac{\epsilon_0 K A}{d - t \left(1 - \frac{1}{K}\right)}$$

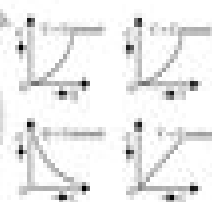


### Energy Stored in a Capacitor

$$U = \frac{1}{2} CV^2 = \frac{1}{2} QV$$

$$U = \frac{1}{2} \frac{Q^2}{C} = \frac{1}{2} \frac{Q^2}{\epsilon_0 K A/d}$$

### Energy Density



Electric field  $\vec{E}$  between plates =  $\frac{V}{d}$

Charge on the inside of each plate,  $+Q$  on the top,  $-Q$  on the bottom

Electric Potential due to Uniformly Charged Spherical Shell

Outside the shell  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$   
 $r \geq R$

On the shell  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{R}$   
 $r = R$

Inside the shell  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{R}$   
 $r < R$

Inside the sphere  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{R^2} \left( \frac{3R^2 - r^2}{2} \right)$   
 $r < R$

Electric Potential due to a Non-Conducting Charged Solid Sphere

Outside the sphere  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$   
 $r \geq R$

On the sphere  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{R}$   
 $r = R$

At solid point,  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$

Electrostatic Potential due to an Electric Dipole

At any arbitrary point,  
 $V = \frac{1}{4\pi\epsilon_0} \frac{\vec{p} \cdot \vec{r}}{r^3}$

At equatorial point,  
 $V = 0$

Electric Potential Energy

For a system of two charges  
 $U = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r}$

Potential energy of a dipole in external field  $E_0 = pE_0 \cos \theta$  when initially  $\theta_0 = 0^\circ$ ,  $U = -p \cdot E_0$

Electrostatic Potential  
Work done per unit positive test charge by an external force in bringing a unit positive charge from infinity to a point in the presence of another point charge.  
 $V = \frac{W}{q_0} = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$

Electric Field

Electric Potential

Electric Potential Energy

Combination of Capacitors

Capacitor and Capacitance

Energy Stored in a Capacitor

Energy Density

# Physics Electrostatics Grade 11 Notes

**JG Myers**



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### **Table of Contents Physics Electrostatics Grade 11 Notes**

1. Understanding the eBook Physics Electrostatics Grade 11 Notes
  - The Rise of Digital Reading Physics Electrostatics Grade 11 Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Electrostatics Grade 11 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 a Physics Electrostatics Grade 11 Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Electrostatics Grade 11 Notes
  - Personalized Recommendations

- Physics Electrostatics Grade 11 Notes User Reviews and Ratings
- Physics Electrostatics Grade 11 Notes and Bestseller Lists
- 5. Accessing Physics Electrostatics Grade 11 Notes Free and Paid eBooks
  - Physics Electrostatics Grade 11 Notes Public Domain eBooks
  - Physics Electrostatics Grade 11 Notes eBook Subscription Services
  - Physics Electrostatics Grade 11 Notes Budget-Friendly Options
- 6. Navigating Physics Electrostatics Grade 11 Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Physics Electrostatics Grade 11 Notes Compatibility with Devices
  - Physics Electrostatics Grade 11 Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physics Electrostatics Grade 11 Notes
  - Highlighting and Note-Taking Physics Electrostatics Grade 11 Notes
  - Interactive Elements Physics Electrostatics Grade 11 Notes
- 8. Staying Engaged with Physics Electrostatics Grade 11 Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physics Electrostatics Grade 11 Notes
- 9. Balancing eBooks and Physical Books Physics Electrostatics Grade 11 Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physics Electrostatics Grade 11 Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physics Electrostatics Grade 11 Notes
  - Setting Reading Goals Physics Electrostatics Grade 11 Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Electrostatics Grade 11 Notes
  - Fact-Checking eBook Content of Physics Electrostatics Grade 11 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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web boom town 3rd grade street test on the banks of holliday creek david wright 2012 07 after a tragic accident the wrights find a new beginning moving from the city with all its

reading street third grade unit 1 boom town - Oct 28 2022

web boom town tales gold fever from pbs klondike gold rush from boomtown to ghost town an economics lesson plan what would you work hard for lesson

*grade 3 boom town flashcards quizlet* - Dec 30 2022

web this is a trifold that can be done independently or in small groups for the story boom town of the 3rd grade california

treasures series it may also be in editions of other states a version without page numbers is also included

**3rd grade reading assessment boom town by** - May 03 2023

web feb 25 2012 boom town study guide quiz thursday march 1 st 2012 vocabulary wailed grumbled stagecoach reading comprehension what event occurs after