

# 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.

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

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)

### 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.  
 $C = \frac{Q}{V}$

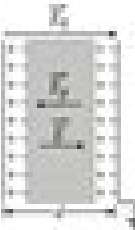
### Combination of Capacitors

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

Parallel combination  
 $C_p = C_1 + C_2 + C_3 + \dots + C_n$

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

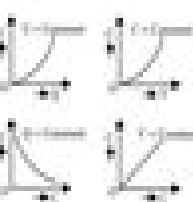
$$C = \frac{\epsilon_0 K A}{d - t \left(1 - \frac{1}{K}\right)}$$



### Energy Stored in a Capacitor

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

### 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  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$   
 $r > R$

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  
 $V = \frac{1}{4\pi\epsilon_0} \frac{Q}{r}$   
 $r > R$

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

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

Electric Potential due to an Electric Dipole

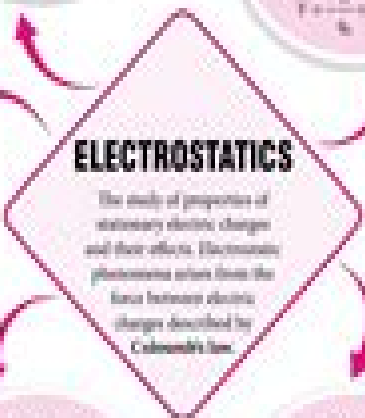
At any arbitrary point,  
 $V = \frac{1}{4\pi\epsilon_0} \frac{\vec{p} \cdot \vec{r}}{r^3}$

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  $\theta_0 = 0^\circ$ ,  $U = -pE_0$



# Conceptual Physics Electrostatics Think And Rank

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Conceptual Physics Electrostatics Think And Rank**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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