

PHYSICS CLASS-12th MIND MAP

ELECTROSTATICS

1) Basic properties of charges:-

- Charges are quantised in nature.
- Total charge of an isolated system is conserved.
- Charge obeys addition in nature.

ELECTROSTATICS
The study of properties of stationary electric charges and their effects. Electrostatics deals with forces between charged objects. Coulomb's Law.

Electrostatics formulae:-
Coulomb's Law: Force between two point charges q_1 and q_2 separated by a distance r in a vacuum is given by:
$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

where ϵ_0 is the permittivity of free space.

2) Electric field:-
The force experienced by a unit positive charge placed at that point.
$$E = \frac{F}{q} = \frac{kq}{r^2}$$

SI unit = N/Coulomb
= Volt/metre
Direction:-
 $(E) = \frac{q}{4\pi\epsilon_0 r^2}$

3) Coulomb's Law
For two stationary point charges q_1 and q_2 , the force between them is given by:
$$F = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r^2}$$

2) ELECTRIC FIELD

1) Electric field:-
Every charge is associated with a displacement \vec{r} where:-
Magnitude is equal to the product of the magnitude of other charge(s) and the distance r_0 between the charge.
$$E = \frac{q}{4\pi\epsilon_0 r^2}$$

3) TORQUE

ELECTROSTATICS

4) CAPACITOR AND CAPACITANCE

1) Combination of Capacitors
Series Combination
$$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \dots + \frac{1}{C_n}$$

Parallel Combination
$$C_p = C_1 + C_2 + \dots + C_n$$

2) Parallel Plate Capacitor with dielectric slab of thickness t with dielectric constant K .

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

3) Energy stored in a capacitor

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

Energy density:-
$$u = \frac{1}{2} \epsilon_0 E^2$$

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

Charge on the inside plate:-
$$Q = CV$$

Class 12th Physics

Unit - 01

ELECTROSTATIC

Mind Map / Short Notes



Electrostatics Unit1 Of Physics

Peipei Pang



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