

# Class 12 Physics Notes PDF

## Chapter-1

### Electric Charges & Fields

Electrostatics is study of electric charge at rest.

**Electric charge** :- Electric charge is a fundamental property of elementary particles that causes them to exert electric forces on each other.

It is scalar quantity. It is denoted by  $Q$  or  $q$ . Its magnitude is equal to product of current and time.

$$i.e.; |Q| = |IT|$$

SI unit = ampere  $\times$  sec  
= As  
= Coulomb  
= C

Dimension =  $[IT]$  or  $[IT]$

**Other unit of charge**

1. CGS unit = stat coulomb

## Chapter-2

### AC and DC

An electromotive force (emf) which changes continuously with time & direction reverses periodically is called alternating emf.



$$e = E \sin \omega t$$

In India is given as 220 V

110 V and 60 Hz.

**Alternating Current** :-

Alternating current (AC) is an electric current that periodically reverses its direction, and changes its magnitude conti-

# Physics Notes For Class 12 Pradeep Notes

**Huangqi Zhang**



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