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Electric Charges and Fields

1.1 ELECTRIC CHARGE

- Charge is the property associated with matter due to which it produces and experiences electrical and magnetic effects.
- It is known that every atom is electrically neutral, containing as many electrons as the number of protons in the nucleus.
- Charged particles can be created by disturbing the neutrality of an atom. Loss of electrons gives positive charge (as then $n_p > n_e$) and gain of electrons gives negative charge (as then $n_e > n_p$) to a particle.
- **Unit and dimensional formula:**

SI unit of charge is ampere \times sec = coulomb (C); smaller SI units are mC, μ C.

CGS unit of charge is stat coulomb or e.s.u. Electromagnetic unit of charge is ab coulomb.

$$1 \text{ C} = 3 \times 10^9 \text{ stat coulomb} = \frac{1}{10} \text{ ab coulomb}$$

Dimensional formula: $[Q] = [L^1 A^1 T^1]$

1.1.1 Basic Properties of Electric Charge

- Transferable:** It can be transferred from one body to another.
- Associated with mass:** Charge cannot exist without mass but reverse is not true.
- Conserved:** It can neither be created nor be destroyed.
Invariant: Independent of velocity of charged particle.
- Charge on a conductor:** Charge given to a conductor always resides on its outer surface. This is why a solid and a hollow conducting sphere of same outer radius will hold maximum equal charge.

If surface is uniform, the charge distributes uniformly on the surface and for irregular surface, the distribution of charge, i.e., charge density is not uniform. It is maximum where the radius of curvature is minimum and vice versa, i.e., $\sigma \propto (1/R)$. This is why charge leaks from sharp points.



- Quantification of charge:** If the charge of an electron ($= 1.6 \times 10^{-19} \text{ C}$) is taken as elementary unit, i.e., quanta of charge, the charge on any body will be some integral multiple of e , i.e.,

$$Q = n e \text{ with } n = 1, 2, 3, \dots$$

Charge on a body can never be $n \frac{2}{3} e$, $n 17.2 e$, or $n 10^{-9} e$, etc.

1.2 CONDUCTORS AND INSULATORS

(i) Conductors (metals)

The substances through which electric charge can flow easily are called conductors. In the atoms of such substances, electrons of the outer shell are loosely bound to the nucleus. At room temperature, valence electrons of metals get detached from their nucleus. These electrons are called free electrons.

Important Points

- Metals have large number of free electrons of about $10^{23}/\text{cm}^3$.

Electric Charge And Electric Field Module 5

Yi-Tong Ma



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