

# 1

## 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,  $\mu$ C.

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

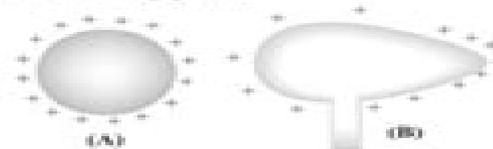
$$1 \text{ C} = 3 \times 10^9 \text{ stat coulomb} = \frac{1}{10} \text{ ab coulomb}$$

Dimensional formula:  $[Q] = [AT]$

#### 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.



- Quantisation 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.,

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

Charge on a body can never be  $n\frac{2}{3}e$ ,  $n17.2e$ , or  $n10^{-9}e$ , 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

**Xiaolong Qi**



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## **Table of Contents Electric Charge And Electric Field Module 5**

1. Understanding the eBook Electric Charge And Electric Field Module 5
  - The Rise of Digital Reading Electric Charge And Electric Field Module 5
  - Advantages of eBooks Over Traditional Books
2. Identifying Electric Charge And Electric Field Module 5
  - 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 an Electric Charge And Electric Field Module 5
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Charge And Electric Field Module 5

- Personalized Recommendations
  - Electric Charge And Electric Field Module 5 User Reviews and Ratings
  - Electric Charge And Electric Field Module 5 and Bestseller Lists
5. Accessing Electric Charge And Electric Field Module 5 Free and Paid eBooks
    - Electric Charge And Electric Field Module 5 Public Domain eBooks
    - Electric Charge And Electric Field Module 5 eBook Subscription Services
    - Electric Charge And Electric Field Module 5 Budget-Friendly Options
  6. Navigating Electric Charge And Electric Field Module 5 eBook Formats
    - ePub, PDF, MOBI, and More
    - Electric Charge And Electric Field Module 5 Compatibility with Devices
    - Electric Charge And Electric Field Module 5 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Electric Charge And Electric Field Module 5
    - Highlighting and Note-Taking Electric Charge And Electric Field Module 5
    - Interactive Elements Electric Charge And Electric Field Module 5
  8. Staying Engaged with Electric Charge And Electric Field Module 5
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Electric Charge And Electric Field Module 5
  9. Balancing eBooks and Physical Books Electric Charge And Electric Field Module 5
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Electric Charge And Electric Field Module 5
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Electric Charge And Electric Field Module 5
    - Setting Reading Goals Electric Charge And Electric Field Module 5
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Electric Charge And Electric Field Module 5

- Fact-Checking eBook Content of Electric Charge And Electric Field Module 5
  - 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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