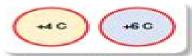
The electrostatic charge

- The charge on the electron the most common magnitude charge for chemical ions and accelerated charged particles in physics, is too small to be a practical unit, especially in electricity.
- The unit we therefore use is the coulomb (C) for measuring electrostatic charge, named after Charles Augustin de Coulomb, a French physicist who did many of the early experiments on electrostatics.
 - One coulomb (C) is the charge equal to the total charge on 6.25 x 10" electrons.
 - So, 1 coulomb = the charge on 6 250 000 000 000 000 000 electrons
 - Therefore the charge on 1 electron = ¹/_{6.96 × 10^M} = −1.6 × 10⁻¹⁹ C.
 - The charge on a proton is +1.6 × 10⁻¹⁹ C.

Sample Questions

- How many electrons are involved in producing the following charged objects?
 - (a) Object A with a charge of +4.0 mC.
 - (b) Object b with a charge of -2.5 aC.
 - (c) Object C with charge +6 × 10° C.
 - (d) Object D with charge -7.2 nC,
- 2. What is the charge on each of the following?
 - Object which has a deficiency of 6.0 × 10³⁶ electrons.
 - (b) Object which has an excess of 7.5 × 10¹⁶ electrons.
 - (c) Object which has a deficiency of 4.8 × 10¹⁰ electrons.
 - (d) Object which has an excess of 6 × 10st electrons.
- Two charged spheres of identical size carry charges of +4 C and +6 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?

 Two charged spheres of identical size carry charges of +3 C and -5 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?
- Two charged spheres of identical size carry charges of -1.6 C and -3.2 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?
- Three charged spheres of identical size carry charges of -2.0 C, +6.0 C and -1.0 C as shown.



Describe what happens if these spheres are all touched together?

Electricity and Magnetism

Mastering Physics Solution Chapter

Richard Bailey

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Table of Contents Mastering Physics Solution Chapter

- 1. Understanding the eBook Mastering Physics Solution Chapter
 - The Rise of Digital Reading Mastering Physics Solution Chapter
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mastering Physics Solution Chapter
 - 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 Mastering Physics Solution Chapter
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mastering Physics Solution Chapter
 - Personalized Recommendations
 - Mastering Physics Solution Chapter User Reviews and Ratings
 - Mastering Physics Solution Chapter and Bestseller Lists
- 5. Accessing Mastering Physics Solution Chapter Free and Paid eBooks
 - Mastering Physics Solution Chapter Public Domain eBooks
 - Mastering Physics Solution Chapter eBook Subscription Services
 - Mastering Physics Solution Chapter Budget-Friendly Options
- 6. Navigating Mastering Physics Solution Chapter eBook Formats

- o ePub, PDF, MOBI, and More
- Mastering Physics Solution Chapter Compatibility with Devices
- Mastering Physics Solution Chapter Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Solution Chapter
 - Highlighting and Note-Taking Mastering Physics Solution Chapter
 - Interactive Elements Mastering Physics Solution Chapter
- 8. Staying Engaged with Mastering Physics Solution Chapter
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Solution Chapter
- 9. Balancing eBooks and Physical Books Mastering Physics Solution Chapter
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Solution Chapter
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Solution Chapter
 - Setting Reading Goals Mastering Physics Solution Chapter
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Solution Chapter
 - Fact-Checking eBook Content of Mastering Physics Solution Chapter
 - 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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