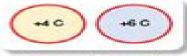
#### The electrostatic charge

- 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 = <sup>1</sup>/<sub>6.26 × 10.96</sub> = −1.6 × 10<sup>-16</sup> C.
  - The charge on a proton is +1.6 × 10<sup>-19</sup> 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 MC.
  - (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 × 10<sup>36</sup> electrons.
  - (b) Object which has an excess of 7.5 × 10<sup>16</sup> electrons.
  - (c) Object which has a deficiency of 4.8 × 10<sup>10</sup> electrons.
  - (d) Object which has an excess of 6 x 10<sup>st</sup> 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?

# **Mastering Physics Solution Chapter**

**Barton Zwiebach** 

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Fundamentals of Physics, Chapters 33-37 David Halliday, Robert Resnick, Jearl Walker, 2010-03 Mastering Physics for IIT-JEE Volume - I Rathi Rakesh, Physics for IIT JEE Fundamentals of Physics Extended David Halliday, Robert Resnick, Jearl Walker, 2010-03-08 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying Circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read Sample Problems also demonstrate how engineers can solve problems with reasoned solutions Fundamentals of Physics, Volume 1 David Halliday, Robert Resnick, Jearl Walker, 2021-10-05 Renowned for its interactive focus on conceptual understanding its superlative problem solving instruction and emphasis on reasoning skills the Fundamentals of Physics Volume 1 12th Edition is an industry leading resource in physics teaching With expansive insightful and accessible treatments of a wide variety of subjects including straight line motion measurement vectors and kinetic energy the book is an invaluable reference for physics educators and students In the first volume of this two volume set the authors discuss subjects including gravitation wave theory entropy and the Second Law of Thermodynamics and more Mastering Numbers Andrew Jeffrey, 2018-12-18 The perfect antidote to numbers phobia this clear concise guide explains everything you need to know about arithmetic fractions statistics probability algebra and geometry We all use numbers every day yet many people are uncomfortable with them finding them daunting and difficult Others treat numbers as a practical tool they can handle quite well while failing to appreciate their most amazing qualities This book is the antidote to number phobia As with learning to swim you ll never look back these are skills you ll use for the rest of your life If you think you re good with numbers already you ll soon discover what you ve been missing the endless fascination and beauty of numbers and at the more practical level a whole range of techniques and shortcuts you never knew existed Mastering Numbers brings the subject to life replacing the atmosphere of the classroom with the wonder of the magician s workshop In learning to enjoy numbers we discover a multitude of practical skills everything from understanding statistics and the odds gamblers face to the interest rates on savings and ways to maximise your returns Never again need you flounder in a business meeting or an encounter with your bank manager and if the chance arises to chat to him more casually you could impress with stories about pi prime numbers Fermat's theorem and much else besides Full of enjoyable exercises puzzles demonstrations and self testing interludes this is a book to instruct and give pleasure Free Sample - CBSE Board Class 12 Physics Difficulty-wise Solved Papers in (level of Difficulty) Disha Experts, 2021-07-01 There are a lot of Solved Paper books available in the market But this is DIFFERENT The book CBSE

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