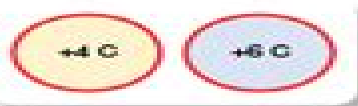


## The electrostatic charge

- 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  $6.25 \times 10^{18}$  electrons.
  - So, 1 coulomb = the charge on 6 250 000 000 000 000 electrons
  - Therefore the charge on 1 electron =  $\frac{1}{6.25 \times 10^{18}} = -1.6 \times 10^{-19}$  C.
  - The charge on a proton is  $+1.6 \times 10^{-19}$  C.

## Sample Questions

1. 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  $-2.5$   $\mu$ C.
  - (c) Object C with charge  $+6 \times 10^{-6}$  C.
  - (d) Object D with charge  $-7.2$  nC.
2. What is the charge on each of the following?
  - (a) Object which has a deficiency of  $6.0 \times 10^{18}$  electrons.
  - (b) Object which has an excess of  $7.5 \times 10^{18}$  electrons.
  - (c) Object which has a deficiency of  $4.8 \times 10^{18}$  electrons.
  - (d) Object which has an excess of  $5 \times 10^{17}$  electrons.
3. 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?

4. 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?

5. 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?

6. 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 Solutions Manual For University Physics

**Eugenia Etkina, Gorazd Planinsic, Alan  
Van Heuvelen**



## **Mastering Physics Solutions Manual For University Physics:**

**Student Study Guide and Solutions Manual for University Physics, Volume 1 (Chapters 1-20)** Hugh Young, Roger Freedman, 2019-07-27 The Student's Study Guide summarizes the essential information in each chapter and provides additional problems for the student to solve reinforcing the text's emphasis on problem solving strategies and student misconceptions Student's Study Guide for University Physics with Modern Physics Volume 1 Chapters 1-20 *Physics for Scientists and Engineers with Modern Physics* Douglas C. Giancoli, 2008 Key Message This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to We then move on to the generalizations and more formal treatment of the topic Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced Key Topics INTRODUCTION MEASUREMENT ESTIMATING DESCRIBING MOTION KINEMATICS IN ONE DIMENSION KINEMATICS IN TWO OR THREE DIMENSIONS VECTORS DYNAMICS NEWTON'S LAWS OF MOTION USING NEWTON'S LAWS FRICTION CIRCULAR MOTION DRAG FORCES GRAVITATION AND NEWTON'S 6 SYNTHESIS WORK AND ENERGY CONSERVATION OF ENERGY LINEAR MOMENTUM ROTATIONAL MOTION ANGULAR MOMENTUM GENERAL ROTATION STATIC EQUILIBRIUM ELASTICITY AND FRACTURE FLUIDS OSCILLATIONS WAVE MOTION SOUND TEMPERATURE THERMAL EXPANSION AND THE IDEAL GAS LAW KINETIC THEORY OF GASES HEAT AND THE FIRST LAW OF THERMODYNAMICS SECOND LAW OF THERMODYNAMICS ELECTRIC CHARGE AND ELECTRIC FIELD GAUSS'S LAW ELECTRIC POTENTIAL CAPACITANCE DIELECTRICS ELECTRIC ENERGY STORAGE ELECTRIC CURRENTS AND RESISTANCE DC CIRCUITS MAGNETISM SOURCES OF MAGNETIC FIELD ELECTROMAGNETIC INDUCTION AND FARADAY'S LAW INDUCTANCE ELECTROMAGNETIC OSCILLATIONS AND AC CIRCUITS MAXWELL'S EQUATIONS AND ELECTROMAGNETIC WAVES LIGHT REFLECTION AND REFRACTION LENSES AND OPTICAL INSTRUMENTS THE WAVE NATURE OF LIGHT INTERFERENCE DIFFRACTION AND POLARIZATION SPECIAL THEORY OF RELATIVITY EARLY QUANTUM THEORY AND MODELS OF THE ATOM QUANTUM MECHANICS QUANTUM MECHANICS OF ATOMS MOLECULES AND SOLIDS NUCLEAR PHYSICS AND RADIOACTIVITY NUCLEAR ENERGY EFFECTS AND USES OF RADIATION ELEMENTARY PARTICLES ASTROPHYSICS AND COSMOLOGY Market Description This book is written for readers interested in learning the basics of physics **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson's Essential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton's Laws

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