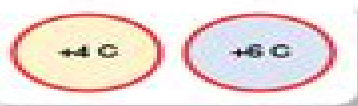


The electrostatic charge

- 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 6.25×10^{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 μ 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 6.0×10^{18} electrons.
 - (b) Object which has an excess of 7.5×10^{18} electrons.
 - (c) Object which has a deficiency of 4.8×10^{18} electrons.
 - (d) Object which has an excess of 5×10^{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 Solution Chapter

Richard Wolfson



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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 Mastering Blender Tony Mullen, 2012-11-07 New edition shows you how to get the very most out of the latest version of Blender Blender the open source 3D software is more popular than ever and continues to add functionality If you're an intermediate or advanced user this new edition of Tony Mullen's expert guide is what you need to get up to speed on Blender and expand your skills From modeling texturing animation and visual effects to high level techniques for film television games and more this book covers it all It also highlights Blender's very latest features including new camera tracking tools and a new renderer Provides intermediate to advanced coverage of Blender and its modeling texturing animation and visual effects tools Covers advanced topics such as cloth fur and fluids Python scripting and the Blender game engine Brings you up to speed on Blender's new camera tracking tools and new renderer Showcases techniques used in real world 3D animation and visual effects Create realistic animation and visual effects with Blender and this expert guide that shows you step by step how to do it **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 Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static Equilibrium Part 2 Oscillations Waves and Fluids Oscillatory Motion Wave Motion Fluid Motion Thermodynamics Temperature and Heat The Thermal Behavior of Matter Heat Work and the First Law of Thermodynamics The Second Law of Thermodynamics For all readers interested in calculus based physics **Introductory Physics with Algebra as a Second Language** Stuart E. Loucks, 2006-08-04 Many students find it difficult to master the fundamental skills that are essential to succeeding in physics Now with this helpful book they'll quickly learn how to break physics down into basic steps Author Stuart Loucks presents the material in a way that will motivate and empower them He offers clear

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Competitive Physics: Mechanics And Waves Jinhui Wang, Bernard Ricardo Widjaja, 2018-08-10

Written by a former Olympiad student Wang Jinhui and a Physics Olympiad national trainer Bernard Ricardo Competitive Physics delves into the art of solving challenging physics puzzles This book not only expounds a multitude of physics topics from the basics but also illustrates how these theories can be applied to problems often in an elegant fashion With worked examples that depict various problem solving sleights of hand and interesting exercises to enhance the mastery of such techniques readers will hopefully be able to develop their own insights and be better prepared for physics competitions Ultimately problem solving is a craft that requires much intuition Yet this intuition can only be honed by mentally trudging through an arduous but fulfilling journey of enigmas Mechanics and Waves is the first of a two part series which will discuss

general problem solving methods such as exploiting the symmetries of a system to set a firm foundation for other topics

Advances in Imaging and Electron Physics ,2011

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 S6 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

University Physics: Australian edition Hugh D Young,Roger A Freedman,Ragbir

Bhathal,2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education When the first edition of University Physics by Francis W Sears and Mark W Zemansky was published in 1949 it was revolutionary among calculus based physics textbooks in its emphasis on the fundamental principles of physics and how to apply them The success of University Physics with generations of several million students and educators around the world is a testament to the merits of this approach and to the many innovations it has introduced subsequently In preparing this First Australian SI edition our aim was to create a text that is the future of Physics Education in Australia We have further enhanced and developed University Physics to assimilate the best ideas from education research with enhanced problem

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