

Solutions to Giancoli Recommended Problems - Chapter 20

Responses to MisConceptual Questions

2. (c) It is common to confuse the directions of the magnetic fields with electric fields and thus indicate that the magnetic field points toward or away from the current. Since the current is flowing into the page, the right-hand rule indicates that the magnetic field is in the clockwise direction around the current. At point A, the field points downward.
3. (b) The right-hand rule indicates that the magnetic field is clockwise around the current, so at point B the current is to the left.
9. (c) A common misconception is that a force always does work on the object. Since the magnetic force is perpendicular to the velocity of the proton, the force acts as a centripetal force, changing the proton's direction, but not doing any work and thus not changing its kinetic energy.

Solutions to Problems

1. (a) Use Eq. 20-1 to calculate the force with an angle of 90° and a length of 1 meter.

$$F = I\ell B \sin \theta \rightarrow F/\ell = IB \sin \theta = (6.40 \text{ A})(0.90 \text{ T}) \sin 90^\circ = \boxed{5.8 \text{ N/m}}$$
- (b) Change the angle to 35.0° .

$$F/\ell = IB \sin \theta = (6.40 \text{ A})(0.90 \text{ T}) \sin 35.0^\circ = \boxed{3.3 \text{ N/m}}$$
9. The maximum magnetic force as given in Eq. 20-4 can be used since the velocity is perpendicular to the magnetic field.

$$F_{\max} = qvB = (1.60 \times 10^{-19} \text{ C})(7.75 \times 10^5 \text{ m/s})(0.45 \text{ T}) = \boxed{5.6 \times 10^{-14} \text{ N}}$$

By the right-hand rule, the force must be directed to the north.

19. The kinetic energy is used to determine the speed of the particles, and then the speed can be used to determine the radius of the circular path, since the magnetic force is causing centripetal acceleration.

$$\begin{aligned}
 KE &= \frac{1}{2}mv^2 \rightarrow v = \sqrt{\frac{2KE}{m}} & qvB &= \frac{mv^2}{r} \rightarrow r = \frac{mv}{qB} = \frac{m\sqrt{\frac{2KE}{m}}}{qB} = \frac{\sqrt{2mKE}}{qB} \\
 \frac{r_p}{r_e} &= \frac{\frac{\sqrt{2m_p KE}}{qB}}{\frac{\sqrt{2m_e KE}}{qB}} = \sqrt{\frac{m_p}{m_e}} = \sqrt{\frac{1.67 \times 10^{-27} \text{ kg}}{9.11 \times 10^{-31} \text{ kg}}} = \boxed{42.8}
 \end{aligned}$$

Giancoli Physics Chapter 20 Solutions

Douglas C. Giancoli



Giancoli Physics Chapter 20 Solutions:

Solutions Manual for Giancoli Physics, Principles with Applications Keith H. Brown, 1980 Solutions Manual for Giancoli's Physics, Principles with Applications, 2nd Edition John F. Reading, 1985 *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 LAW OF GRAVITATION 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.

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include advanced techniques in MoM FEM and FDTD spectral domain method GPU and Phi hardware acceleration metamaterials frequency and time domain integral equations and statistics methods in bio electromagnetics **Physics**

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