

REVIEW

Chapter 9

Impulse

1. A fullback of mass 120 kg traveling at 20.0 m/s collides with another player and comes to rest in 1.5 s. What was the force of the impact?

$$F = \frac{0 - 120 \text{ kg}(20.0 \text{ m/s})}{1.5 \text{ s}} = \boxed{-1600 \text{ N}}$$

Impulse $Ft = m(v_f - v_i)$

2. A golf ball of mass 0.050 kg acquires a speed of 80.0 m/s when hit with a force of 3.0×10^3 N. How long was the club in contact with the ball?

$$t = \frac{0.050 \text{ kg}(80.0 \text{ m/s} - 0)}{3.0 \times 10^3 \text{ N}} = \boxed{0.0013 \text{ s}}$$

Impulse

3. What force, acting for 1.35×10^{-3} s, will change the velocity of a 95-g baseball from 50.0 m/s eastward to 45.0 m/s westward?

$$F = \frac{95 \text{ g} \times \frac{1 \text{ kg}}{1,000 \text{ g}} (-45.0 \text{ m/s} - 50.0 \text{ m/s})}{1.35 \times 10^{-3} \text{ s}} = \boxed{-6700 \text{ N}}$$

(-6,685 N)

Inelastic Collision

4. A 65-kg ice skater traveling at 6.0 m/s runs head-on into an 85-kg skater traveling straight forward at 4.5 m/s. At what speed and in what direction do the ice skaters travel if they move together after the collision?

$$m_1 v_1 + m_2 v_2 = (m_1 + m_2) V$$

⊕ ⊖

$$V = \frac{65 \text{ kg}(6.0 \text{ m/s}) + 85 \text{ kg}(-4.5 \text{ m/s})}{(65 \text{ kg} + 85 \text{ kg})} = \boxed{\oplus 0.050 \text{ m/s}}$$

(in direction of 65 kg skater)

Elastic Collision

5. A 4.0-kg object traveling westward at 25 m/s hits a 15-kg object at rest. The 4.0-kg object bounces eastward at 8.0 m/s. What is the speed and direction of the 15-kg object?

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

E → + ← W

$$4.0 \text{ kg}(-25 \text{ m/s}) + 0 = 4.0 \text{ kg}(8.0 \text{ m/s}) + 15 \text{ kg} V$$

$$V = \frac{(-100 \text{ N} \cdot \text{s} - 32.0 \text{ N} \cdot \text{s})}{15 \text{ kg}} = \boxed{-8.8 \text{ m/s in direction of 4.0 kg object or Westward}}$$

Physics 21prelab Answers

Barbara P. Wheeler, Lori J. Wilson



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Energy Research Abstracts ,1993 **Nuclear Science Abstracts** ,1976-06 **Government Reports Announcements & Index** ,1996 **Scientific and Technical Aerospace Reports** ,1987 **Practical Forensic Microscopy** Barbara P. Wheeler,Lori J. Wilson,2011-08-10 Forensic Microscopy A Laboratory Manual will provide the student with a practical overview and understanding of the various microscopes and microscopic techniques employed within the field of forensic science Each laboratory experiment has been carefully designed to cover the variety of evidence disciplines within the forensic science field with carefully set out objectives explanations of each topic and worksheets to help students compile and analyse their results The emphasis is placed on the practical aspects of the analysis to enrich student understanding through hands on experience The experiments move from basic through to specialised and have been developed to cover a variety of evidence disciplines within forensic science field The emphasis is placed on techniques currently used by trace examiners This unique forensic focused microscopy laboratory manual provides objectives for each topic covered with experiments designed to reinforce what has been learnt along with end of chapter questions report requirements and numerous references for further reading Impression evidence such as fingerprints shoe tread patterns tool marks and firearms will be analysed using simple stereomicroscopic techniques Body fluids drug and trace evidence e g paint glass hair fibre will be covered by a variety of microscopes and specialized microscopic techniques **Technical Publications Announcements with Indexes** United States. National Aeronautics and Space Administration,1962

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Hofstein,Muhamad Hugerat,2021-11-26 Authored by renowned experts in the field of chemistry education this book provides a holistic approach to cover all issues related to learning and teaching in the chemistry laboratory **Energy Research**

Abstracts ,1985 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information High Energy Propellants - a Continuing Bibliography United States. National Aeronautics and

Space Administration. Scientific and Technical Information Division,1965 Government Reports Annual Index ,1982

ERDA Energy Research Abstracts ,1983

Resources in Education ,1997

Improving K-12 STEM Education

Outcomes through Technological Integration Urban, Michael J.,Falvo, David A.,2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and mathematics Improving K 12 STEM Education Outcomes through Technological Integration focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy

Teaching with Technology Les Lloyd,2000 Presents more than thirty essays by educators about integrating technology into the classroom from administrative and financial concerns to effective classroom design to ESL and distance learning and many other related topics **Fusion Energy Update** ,1984 Stanford Bulletin ,2004 **ERDA Energy Research**

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