

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 $3.0 \times 10^3 \text{ N}$. 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 $1.35 \times 10^{-3} \text{ s}$, 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?

$$m_1 v_1 + m_2 v_2 = (m_1 + m_2) V \quad \oplus \rightarrow \quad \leftarrow \ominus$$

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

(in direction of 65 kg skater)

m_1

Elastic Collision

m_2

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?

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

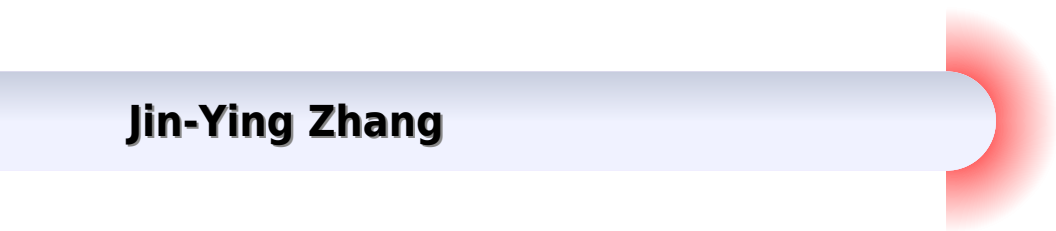


$$4.0 \text{ kg}(-25 \text{ m/s}) + 0 = 4.0 \text{ kg}(8.0 \text{ m/s}) + 15 \text{ kg } V$$

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

Force Review Puzzle Physics Fundamentals 5 21 Answer Key

Jin-Ying Zhang



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from the Notebook for Anna Magdalena by J.S. Bach Arranged for Band - MP3. Created by. Vinci eLearning. Tiddalick the Frog - Dreamtime Oct 29, 2018 — We'll share a dream and sing with one voice "I am, you are, we are Australian". I'm a teller of stories. I'm a singer of songs. I am Albert ... Musical Childhoods: Explorations in the pre-school years Service Manual YDRE+YDRA Jan 20, 2020 — Service Manual YDRE+YDRA Electric Yamaha. ... 2007-2014 yamaha Ydra/ydre have internal wet brakes. cgtech is ... YAMAHA YDRA OWNER'S/OPERATOR'S MANUAL Pdf ... This manual contains information you will need for proper operation, maintenance, and care of your golf car. A thorough understanding of these simple ... YAMAHA GOLFCARS OWNER'S MANUALS FIND YOUR OWNER'S MANUAL. Golf Car. Year, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003 ... 2007 YDRE service manual needed Aug 12, 2021 — Reload this Page 2007 YDRE service manual needed. Thread Tools. Similar Threads. Thread, Forum. Service Manual YDRE+YDRA, Electric Yamaha. 2009 YDRE/Drive ... Yamaha Drive 07-10 Service Manual Service Manual, Yamaha Drive 07 ... RHOX GOLF CART ACCESSORIES. Yamaha Drive 07-10 Service Manual. Out of stock. YDRA Congratulations on your purchase of a. Yamaha golf car. This manual contains information you will need for proper operation, maintenance, and care of your golf ... G29A/E YDRA/E - 2007 Service Manual Yamaha Golf G29A/E, YDRA/E - 2007 Service Manual for G29A/E Golf carts. Yamaha Ydra 2007 Service Manual Pdf Page 1. Yamaha Ydra 2007 Service Manual Pdf. INTRODUCTION Yamaha Ydra 2007 Service Manual Pdf. (PDF) Yamaha G29A Petrol Owners Manual If you have any questions about the operation or maintenance of your golf car, please consult a Yamaha dealer. YAMAHA GOLF-CAR COMPANY. YDRA OWNER'S/OPERATOR'S. YDRE - 48 VOLT GOLF CAR Yamaha Golf-Car Company hereby warrants that any new YDRA gas or YDRE electric Yamaha golf car ... as specified in the Yamaha Service Manual Maintenance. Schedule ... Basic Stoichiometry PhET Lab.pdf - Name Basic Stoichiometry Post-Lab Homework Exercises 1.Load the"Reactants ... Required Evaluate each of the ideas giving strengths and weaknesses Answer 1. 106. PhET stoichiometry lab.doc - Name: Date: Basic... Basic Stoichiometry Post-Lab Homework Exercises 1.Load the"Reactants ... How does the observed color intensity depend on solution concentration? Q&A · I ran a ... Get Basic Stoichiometry Phet Lab Answer Key Pdf Complete Basic Stoichiometry Phet Lab Answer Key Pdf online with US Legal Forms. Easily fill out PDF blank, edit, and sign them. Save or instantly send your ... Name: Basic Stoichiometry PhET Lab Let's make some ... Apr 15, 2022 — Answer to Solved Name: Basic Stoichiometry PhET Lab Let's make some | Chegg.com. Basic Stoichiometry Phet Lab Answer Key PDF Form Basic Stoichiometry Phet Lab Worksheet Answers. Check out how easy it is to complete and eSign documents online using fillable templates and a powerful ... Basic Stoichiometry Phet Lab Answer Key Pdf Fill Basic Stoichiometry Phet Lab Answer Key Pdf, Edit online. Sign, fax and printable from PC, iPad, tablet or mobile with pdfFiller ☐ Instantly. Try Now! Basic Stoichiometry Basic Stoichiometry PhET Lab. Let's make some sandwiches! Introduction: When we ... Basic Stoichiometry Post-Lab Homework Exercises. 1. Load the "Reactants ... Sandwich Stoichiometry PHET | Assignments Chemistry Download

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