- 6. A 50 kg cart is moving across a frictionless floor at 2.0 m/s. A 70 kg boy, riding in the cart, jumps off so that he hits the floor with zero velocity.
  - a. What impulse did the boy give to the cart?

m 1 = 50 kg F & E = m & V V = 2.0 m/s F & E = m & V m2 = 70 kg = (70 kg)(-2.0 m/s) V31 = 0 = -140 kg m/s

b. What was the velocity of the cart after the boy jumped?

 $A_{1, =} = (w_{1} + w_{2})A - w_{3}A_{3, =} = (20 + 40)(3 \cdot 9) - A \cdot 8 \cdot 8$   $(w_{1} + w_{2})A = w_{1}A_{1, +} + w_{2}A_{3, +} = (20 + 40)(3 \cdot 9) - A \cdot 8 \cdot 8$ 

7. Two girls with masses of 50.0 kg and 70.0 kg are at rest on frictionless in-line skates. The larger girl pushes the smaller girl so that the latter rolls away at a speed of 10.0 m/s. What is the effect of the action on the larger girl? What is the impulse that each girl exerts on the other?

 $m_1 = 50.0 \text{ kg}$   $(m_1 + m_2)^2 = m_1 v_1' + m_2 v_2'$   $m_2 = 10.0 \text{ kg}$   $-m_1 v_1' = m_2 v_2'$ v = 0  $v_2' = -\frac{m_1 v_1'}{m_2} = -\frac{(60)(10.0)}{70.0} = -7.14 \text{ m/s}$ 

8. A 2.0 kg melon is balanced on Mr. Daisley's head. His daughter shoots a 50.0 g arrow at it with a speed of 30.0 m/s. The arrow passes through the melon and emerges with a speed of 18.0 m/s. Find the speed of the melon as it flies off the man's head.

 $m_1 = 2.0 \text{ kg}$   $m_1 V_1 + m_2 V_2 = m_1 V_1' + m_2 V_2'$   $V_1 = 0$   $V_1 = 50.0 \text{ g} = .0500 \text{ kg}$   $V_1' = m_1 V_1 + m_2 V_2 - m_2 V_2'$   $V_2 = 30.0 \text{ m/s}$   $V_2' = 18.0 \text{ m/s}$   $V_1' = 7$   $V_1' = 7$ 

Mighty Miguel has a mass of 100.0 kg and is running towards the end zone at 9.0 m/s.
 Joey Gonzales (mass of 75.0 kg), runs at 12.0 m/s towards Miguel. They collide at the 2-yard line. Does Miguel score? Explain.

2

 $M_1 = 100.0 \log$   $m_1 V_1 + m_2 V_2$   $V_1 = 9.0 m/5$  (100.0)(9.0) + (70.0)(-12.0) = 0 $m_2 = 75.0 \log$   $No_1 + hey stop each other$ 

# **Unit 6 Momentum Lab Answer Key**

**Rachel Sandford** 

#### **Unit 6 Momentum Lab Answer Key:**

Fluid Mechanics Experiments Robabeh Jazaei, 2022-05-31 Fluid mechanics is one of the most challenging undergraduate courses for engineering students The fluid mechanics lab facilitates students learning in a hands on environment The primary objective of this book is to provide a graphical lab manual for the fluid mechanics laboratory. The manual is divided into six chapters to cover the main topics of undergraduate level fluid mechanics Chapter 1 begins with an overview of laboratory objectives and the introduction of technical laboratory report content In Chapter 1 error analysis is discussed by providing examples In Chapter 2 fluid properties including viscosity density temperature specific weight and specific gravity are discussed Chapter 3 revolves around the fluid statics include pressure measurement using piezometers and manometers Additionally hydrostatic pressure on the submerged plane and curved surfaces as well as buoyancy and Archimedes Principle are examined in Chapter 3 In Chapter 4 several core concepts of fluid dynamics are discussed This chapter begins with defining a control system based on which momentum analysis of the flow system is explained. The rest of the chapter is allotted to the force acting on a control system the linear momentum equation and the energy equation Chapter 4 also covers the hydraulic grade line and energy grade line experiment. The effect of orifice and changing cross sectional area by using Bernoulli s equation is presented in Chapter 4 The application of the siphon is extended from Chapter 4 by applying Bernoulli s equation The last two chapters cover various topics in both internal and external flows which are of great importance in engineering design Chapter 5 deals with internal flow including Reynolds number flow classification flow rate measurement and velocity profile The last experiment in Chapter 5 is devoted to a deep understanding of internal flow concepts in a piping system In this experiment students learn how to measure minor and major head losses as well as the impact of piping materials on the hydrodynamics behavior of the flow Finally open channels weirs specific energy and flow classification hydraulic jump and sluice gate experiments are covered in Chapter 6 **Nuclear Science Abstracts** ,1976 Research Abstracts ,1984 **Index Medicus**, 2002 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings INIS Atomindex ,1986 Scientific and Technical Aerospace Reports ,1995 U.S. Government Research Nuclear Science Abstracts ,1972 **ERDA Energy Research Abstracts** ,1983 Reports ,1961 Timetable University of Illinois at Urbana-Champaign, 1994 Issues in Logic, Operations, and Computational Mathematics and Geometry: 2013 Edition, 2013-05-01 Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Random Structures and Algorithms The editors have built Issues in Logic Operations and Computational Mathematics and Geometry 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Random Structures and Algorithms in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Logic Operations and Computational Mathematics and Geometry

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