

Name _____ Date _____ Period _____

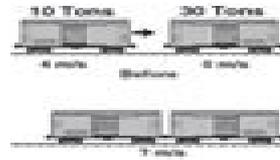
Worksheet: Conservation of Momentum

$$P_{\text{before}} = P_{\text{after}}$$

net momentum before = net momentum after

$$(m_1 v_1 + m_2 v_2)_{\text{before}} = (m_{\text{total}} v)_{\text{after}}$$

1. When these two freight cars of different mass collide and couple, what will be their resultant velocity?



$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (10 \text{ tons} \cdot 4 \frac{\text{m}}{\text{s}}) + (30 \text{ tons} \cdot 0 \frac{\text{m}}{\text{s}}) &= (40 \text{ tons}) (v_{\text{net}}) \\
 40 \frac{\text{ton} \cdot \text{m}}{\text{s}} + 0 \frac{\text{ton} \cdot \text{m}}{\text{s}} &= (40 \text{ tons}) (v_{\text{net}}) \\
 \frac{40 \text{ ton} \cdot \text{m}}{40 \text{ ton}} &= \frac{40 \text{ tons} (v_{\text{net}})}{40 \text{ ton}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

2. A 2 kg blob of putty moving at 4 m/s slams into a 6 kg blob of putty at rest. What is the speed of the two stuck-together blobs immediately after colliding?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (2 \text{ kg}) (4 \frac{\text{m}}{\text{s}}) + (6 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (8 \text{ kg}) (v_{\text{net}}) \\
 8 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (8 \text{ kg}) (v_{\text{net}}) \\
 \frac{8 \text{ kg} \cdot \text{m}}{8 \text{ kg}} &= \frac{(8 \text{ kg}) (v_{\text{net}})}{8 \text{ kg}} \\
 v_{\text{net}} &= 1 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

3. A 100 kg football player runs at 8 m/s and plows into an 80 kg referee standing on the field causing the referee and the player stick together and fly forward. What would the new velocity be?

$$\begin{aligned}
 m_1 v_1 + m_2 v_2 &= m_{\text{total}} \cdot v_{\text{net}} \\
 (100 \text{ kg}) (8 \frac{\text{m}}{\text{s}}) + (80 \text{ kg}) (0 \frac{\text{m}}{\text{s}}) &= (180 \text{ kg}) (v_{\text{net}}) \\
 800 \frac{\text{kg} \cdot \text{m}}{\text{s}} + 0 \frac{\text{kg} \cdot \text{m}}{\text{s}} &= (180 \text{ kg}) (v_{\text{net}}) \\
 \frac{800 \text{ kg} \cdot \text{m}}{180 \text{ kg}} &= \frac{(180 \text{ kg}) (v_{\text{net}})}{180 \text{ kg}} \\
 v_{\text{net}} &= 4.4 \frac{\text{m}}{\text{s}}
 \end{aligned}$$

Chapter 8 Momentum Answers

Arturo Cuomo



Chapter 8 Momentum Answers:

Breaking Away from the Math and Science Book Patricia Baggett, Andrzej Ehrenfeucht, 2004 Breaking Away from the Math and Science Book Physics and Other Projects for Grades 3-12 provides materials that teachers can use directly in their classrooms without expensive or specialized equipment. The material is presented in a modular format that allows one to adapt it to different levels of students from higher elementary through high school. The supplies and equipment required for the experiments are minimal and readily available. The book contains 12 chapters divided into 70 units of material that can be presented at almost any level and requires little or no mathematics, several topics from physics with a concentration on force and energy, high school algebra and trigonometry, brief surveys of the basic facts of physics that are involved and the math needed in the lessons. For classroom teachers who have different objectives and goals, are looking for experiments that students can perform in the classroom that are relevant for the core topics of physics, want to show students how math is really applied, want to provide students with mathematically challenging and meaningful tasks, want to offer students something different, maybe a bit unusual and interesting, it can also be used as the basis of an integrated math and science course for prospective and practicing teachers at the university level.

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McGraw-Hill's SAT Subject Test Physics Christine Caputo, 2012-04-13. Expert guidance on the Physics exam. Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects. McGraw-Hill's SAT Subject Test Physics is written by experts in the field and gives you the guidance you need.

perform at your best This book includes 30 top tips to remember on test day Glossary of tested physics terms Everything you need to know about the SAT Subject Test in Physics testing requirements when to register how scores are reported and more Diagnostic test to pinpoint strengths and weaknesses Sample exams and problems designed to match the real test in content and level of difficulty Two full length practice tests Test taking tips and strategies *Instructor's manual to accompany*

University physics Hugh D. Young Albert Lewis Ford,1992 **Matter and Interactions II** Ruth W. Chabay,Bruce A. Sherwood,2002 A modern introduction to physics for advanced students this work focuses on the atomic structure of the material plus the links between macroscopic and microscopic phenomena Above all readers learn how to explain complex physical processes using simple models This second volume deals with the theory of electricity and magnetism as well as physical optics as understood by the classical interaction between light and material Electrostatics and currents are discussed in a simplified way using the electrical field and microscopic models Technical Physics Raymond E. Bigliani,Gary Ferrigno,1989 Transport Phenomena R. Byron Bird,Warren E. Stewart,Edwin N. Lightfoot,2009-10-05 Eine ausgewogene seit langem bew hrte Einf hrung in die Behandlung von Transportph nomenen jetzt in der 2 bearbeiteten Auflage Stoff Impuls und Energietransport werden in drei verschiedenen Ma st ben behandelt auf molekularem mikroskopischem und makroskopischem Niveau Im Vergleich zur ersten Auflage wurde die Pr sentation des Stoffes verbessert und im Detail aktualisiert Zahlreiche Referenzen erleichtern den Einstieg in die weiterf hrende Fachliteratur

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 solving instruction pioneering visual and conceptual pedagogy the first systematically enhanced problems and the most pedagogically proven and widely used online homework and tutorial system in the world Mastering Physics Pacific Builder & Engineer ,1920 Matter and Interactions I Ruth W. Chabay,Bruce A. Sherwood,2007 The overall goal of this calculus based text is to provide an introduction to physics with a modern point of view It emphasizes the atomic nature of matter macro micro connections and modeling complex physical systems The approach is designed to go beyond low level physics and to build upon readers prior preparation The first volume deals with mechanics and thermal physics in a unified way with strong emphasis on atomic level description and analysis The ball and spring model of solids is a major theme culminating in computing the specific heat as a

function of temperature for an Einstein solid using the concepts of statistical mechanics

McGraw-Hill Education SAT Subject Test Physics Third Edition Christine Caputo, 2018-11-23 We Will Help You Get Your Best Score With more than 125 years of experience in education McGraw Hill Education is the name you trust to deliver results This MHE guide is the most comprehensive and relevant SAT Subject Test prep tool on the market This edition provides 3 full length practice tests with thorough answer explanations A comprehensive review of all Physics concepts essential to success on the SAT Subject Test An extensive overview of the format of the test based on the most recent SAT Physics exams Unique test taking strategies to help you avoid the test maker s traps A customizable study plan to help you maximize the time you have to prepare

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TEST TAKING STRATEGIESLearn unique tips developed by the author to help you avoid the test maker s traps

College Physics: Mechanics, heat, and sound Francis Weston Sears, Mark Waldo Zemansky, 1952

The Physical Universe Konrad Bates Krauskopf, Arthur Beiser, 1986 This is a revised text on introductory courses in physical science with concise presentations of the essentials of physics chemistry geology and astronomy

Introductory Physics Jesse David Wall, 1977

[Instructor's Guide to Accompany Physics, Principles and Insights](#) Ira M. Freeman, 1968

Engineering Mechanics A. Bedford, Wallace L. Fowler, 1999 In *Engineering Mechanics Dynamics* Anthony Bedford and Wallace Fowler present the foundations and applications of dynamics as they do in the classroom The authors explain each concept using carefully developed figures easy to follow examples and real world problems to enhance understanding Throughout the book the authors strive to keep students motivated by placing the subject matter in an engineering context The Bedford Fowler textbook continues to be successful because it teaches engineering mechanics the way good instructors do

[Physics for Scientists and Engineers with Modern Physics](#) Raymond A. Serway, Robert J. Beichner, 2000 This best selling calculus based text is recognized for its carefully crafted logical presentation of the basic concepts and principles of physics The book is available in single hardcover volumes 2 volume hardcover sets and 4 or 5 volume softcover sets Raymond Serway Robert Beichner and contributing author John W Jewett present a strong problem solving approach that is further enhanced through increased realism in worked examples Problem solving strategies and hints allow students to develop a systematic approach to completing homework problems The outstanding ancillary package includes full multimedia support online homework and a content rich Web site that provides extensive support for instructors and students

The CAPA Computer assisted Personalized Approach WebAssign and University of Texas homework delivery systems give instructors flexibility in assigning online homework

The Cosmic Perspective Jeffrey O. Bennett, 2001 Built from the ground up on our new understanding of the universe this reader friendly book focuses on central ideas and unifying themes to provide a concise cosmic context Scientific concepts are linked to everyday experience to help readers develop an appreciation for the scientific method and to see how physics and astronomy are foundations for understanding their world Recent discoveries

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The Solar System Jeffrey O. Bennett,2002 On the disc Developed by Carina Software based on the suite of Voyager products College ed version 3 2

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