

## 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?

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

⊕      ⊖

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

(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?

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

⊖      ⊕      ⊕      ⊖

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

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

# Great American Worksheet Physics Answers

**Karen Littleton, Neil Mercer**



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Amusement Park Physics Nathan A. Unterman, 2001 How many physics texts have a chapter titled Spin and Barf Rides But then how many physics texts calculate the average acceleration during roller coaster rides Or establish the maximum velocity of a Tilt a Whirl Amusement Park Physics is a unique and immensely popular book that investigates force acceleration friction and Newton's Laws through labs that use popular amusement park rides Includes a detailed field trip planner formulas answer key and more

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*Physics* John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-12 Physics 12th Edition focuses on conceptual understanding problem solving and providing real world applications and relevance Conceptual examples

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**Physics, Volume 1** John D. Cutnell, Kenneth W. Johnson, David Young, Shane

Stadler, 2021-10-05 In the newly revised Twelfth Edition of Physics Volume 1 an accomplished team of physicists and educators delivers an accessible and rigorous approach to the skills students need to succeed in physics education Readers will learn to understand foundational physics concepts solve common physics problems and see real world applications of the included concepts to assist in retention and learning The text includes Check Your Understanding questions Math Skills boxes multi concept problems and worked examples The first volume of a two volume set Volume 1 explores ideas and concepts like Newton's Laws of Motion the Ideal Gas Law and kinetic theory Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning

Deep Learning in Introductory Physics Mark J. Lattery, 2016-10-01 Deep Learning in Introductory Physics Exploratory Studies of Model Based Reasoning is concerned with the broad question of how students learn physics in a model centered classroom The diverse creative and sometimes unexpected ways students construct models and deal with intellectual conflict provide valuable insights into student learning and cast a new vision for physics teaching This book is the first publication in several years to thoroughly address the coherence versus fragmentation debate in science education and the first to advance and explore the hypothesis that deep science learning is regressive and revolutionary Deep Learning in Introductory Physics also contributes to a growing literature on the use of history and philosophy of science to confront difficult theoretical and practical issues in science teaching and addresses current international concern over the state of science education and appropriate standards for science teaching and learning The book is divided into three parts Part I introduces the framework agenda and educational context of the book An initial study of student modeling raises a number of questions about the nature and goals of physics education Part II presents the results of four exploratory case studies These studies reproduce the results of Part I with a more diverse sample of students under new conditions a public debate peer discussions and group interviews and with new research prompts model building software bridging tasks and elicitation strategies Part III significantly advances the emergent themes of Parts I and II through historical analysis and a review of physics education research

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**Teaching at Its Best** Linda B. Nilson, 2016-06-22. The classic teaching toolbox, updated with new research and ideas. *Teaching at Its Best* is the bestselling research-based toolbox for college instructors at any level in any higher education setting. Packed with practical guidance, proven techniques, and expert perspectives, this book helps instructors improve student learning, both face-to-face and online. This new fourth edition features five new chapters on building critical thinking into course design, creating a welcoming classroom environment, helping students learn how to learn, giving and receiving feedback, and teaching in multiple modes, along with the latest research and new questions to facilitate faculty discussion. Topics include new coverage of the flipped classroom, cutting-edge technologies, self-regulated learning, the mental processes involved in learning and memory, and more, in the accessible format and easy-to-understand style that has made this book a much-valued resource among college faculty. Good instructors are always looking for ways to improve student learning. With college classrooms becoming increasingly varied by age, ability, and experience, the need for fresh ideas and techniques has never been greater. This book provides a wealth of research-backed practices that apply across the board. Teach students practical, real-world problem solving. Interpret student ratings accurately. Boost motivation and help students understand how they learn. Explore alternative techniques, formats, activities, and exercises. Given the ever-growing body of research on student learning, faculty now have many more choices of effective teaching strategies than they used to have, along with many more ways to achieve excellence.

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ongoing narrative of the American experience      *Towards Inclusion of All Learners through Science Teacher Education* Michele Koomen, Sami Kahn, Christopher L. Atchison, Tiffany A. Wild, 2018-05-16 *Towards Inclusion of All Learners through Science Teacher Education* serves as an indispensable resource for teachers and teacher educators wishing to understand how to educate students with exceptionalities in science This book begins with the voices and stories of the experts current and former K 12 students with disabilities sharing their experiences in science education classrooms The voices of students with disabilities are then connected to the work of leading experts in the area of science education for individuals with disabilities in an effort to address the goals of national reform documents by ensuring rigorous science experiences for all students It is written in a highly accessible and practical manner making it ideal for all educators including pre service and in service teachers teacher educators researchers and curriculum developers      Cutnell & Johnson Physics John D. Cutnell, David Young, Kenneth W. Johnson, Shane Stadler, 2022 The newly revised Twelfth Edition of Cutnell s Physics delivers an effective and accessible introduction to college and university physics It contains easy to follow explanations of critical math and problem solving concepts From kinematics to work and energy temperature heat electricity magnetism and optics as well as foundational concepts in more advanced subjects like special relativity Physics is the ideal introductory text for students from any background The greatest strength of the text is the synergistic relationship it develops between problem solving and conceptual understanding The book lays emphasis on building relevance of physics in day to day living and highlights the physics principles that come into play A wide range of applications that are biomedical in nature and others that deal with modern technology      **Interthinking: Putting talk to work** Karen Littleton, Neil Mercer, 2013-08-15 Through using spoken language people are able to think creatively and productively together This ability to interthink is an important product of our evolutionary history that is just as important for our survival today Many kinds of work activity depend on the success of groups or teams finding joint solutions to problems Creative achievement is rarely the product of solitary endeavour but of people working within a collective enterprise Written in an accessible and jargon free style *Interthinking putting talk to work* explores the growing body of work on how people think creatively and productively together Challenging purely individualistic accounts of human evolution and cognition its internationally acclaimed authors provide analyses of real life examples of collective thinking in everyday settings including workplaces schools rehearsal spaces and online environments The authors use socio cultural psychology to explain the processes involved in interthinking to explore its creative power but also to understand why collective thinking isn t always productive or successful With this knowledge we can maximise the constructive benefits of our ability to interthink and understand the best ways in which we can help young people to develop nurture and value that capability This book will be of great interest to academic researchers postgraduates and undergraduates on Education and Psychology courses and to practicing teachers It will also appeal to anyone with an interest in language creativity and the role of psychology in everyday life      *Test of Faith* Jenny

Baker,2009      *The Writers Directory* ,1990      **Modelling Physics with Microsoft Excel** Bernard V Liengme,2014-10-01  
This book demonstrates some of the ways in which Microsoft Excel may be used to solve numerical problems in the field of physics But why use Excel in the first place Certainly Excel is never going to out perform the wonderful symbolic algebra tools tha      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1961 Includes Part 1  
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