

Basic Physics I – Selected Solved Problems from Cutnell & Johnson Textbook 7th Edition – Wiley

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Introduction and Mathematical Concepts

2. Vesna Vulovic survived the longest fall on record without a parachute when her plane exploded and she fell 6 miles, 551 yards. What is this distance in meters?

REASONING

We use the facts that 1 mi = 5280 ft, 1 m = 3.281 ft, and 1 yd = 3 ft. With these facts we construct three conversion factors: (5280 ft)/(1 mi) = 1, (1 m)/(3.281 ft) = 1, and (3 ft)/(1 yd) = 1.

SOLUTION

By multiplying by the given distance d of the fall by the appropriate conversion factors we find that

$$d = (6 \text{ mi}) \left(\frac{5280 \cancel{\text{ft}}}{1 \cancel{\text{mi}}} \right) \left(\frac{1 \text{ m}}{3.281 \cancel{\text{ft}}} \right) + (551 \text{ yd}) \left(\frac{3 \cancel{\text{ft}}}{1 \cancel{\text{yd}}} \right) \left(\frac{1 \text{ m}}{3.281 \cancel{\text{ft}}} \right) = \boxed{10\,159 \text{ m}}$$

3. Bicyclists in the Tour de France reach speeds of 34.0 miles per hour (mi/h) on flat sections of the road. What is this speed in (a) kilometers per hour (km/h) and (b) meters per second (m/s)?

REASONING

a. To convert the speed from miles per hour (mi/h) to kilometers per hour (km/h), we need to convert miles to kilometers. This conversion is achieved by using the relation 1.609 km = 1 mi (see the page facing the inside of the front cover of the text).

b. To convert the speed from miles per hour (mi/h) to meters per second (m/s), we must convert miles to meters and hours to seconds. This is accomplished by using the conversions 1 mi = 1609 m and 1 h = 3600 s.

SOLUTION

a. Multiplying the speed of 34.0 mi/h by a factor of unity, (1.609 km)/(1 mi) = 1, we find the speed of the bicyclists is

$$\text{Speed} = \left(34.0 \frac{\text{mi}}{\text{h}} \right) (1) = \left(34.0 \frac{\cancel{\text{mi}}}{\text{h}} \right) \left(\frac{1.609 \text{ km}}{1 \cancel{\text{mi}}} \right) = \boxed{54.7 \frac{\text{km}}{\text{h}}}$$

b. Multiplying the speed of 34.0 mi/h by two factors of unity, (1609 m)/(1 mi) = 1 and (1 h)/(3600 s) = 1, the speed of the bicyclists is

$$\text{Speed} = \left(34.0 \frac{\text{mi}}{\text{h}} \right) (1) (1) = \left(34.0 \frac{\cancel{\text{mi}}}{\cancel{\text{h}}} \right) \left(\frac{1609 \text{ m}}{1 \cancel{\text{mi}}} \right) \left(\frac{1 \cancel{\text{h}}}{3600 \text{ s}} \right) = \boxed{15.2 \frac{\text{m}}{\text{s}}}$$

4. Azelastine hydrochloride is an antihistamine nasal spray. A standard size container holds one fluid ounce (oz) of the liquid. You are searching for this medication in a European drugstore and are asked how many milliliters (mL) there are in one fluid ounce. Using the following conversion factors, determine the number

Kinematics Solved Problems Cutnell Physics

Rachel Sandford



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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.

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, Concepts and Calculations problems, and Check Your Understanding questions help students understand physics principles. Math Skills boxes, multi-concept problems, and Examples with reasoning steps help students improve their reasoning skills while solving problems. The Physics Of boxes and new Physics in Biology, Sports, and Medicine problems show students how physics principles are relevant to their everyday lives. A wide array of tools help students navigate through this course and keep them engaged by encouraging active learning. Animated pre-lecture videos created and narrated by the authors explain the basic concepts and learning objectives of each section. Problem-solving strategies are discussed, and common misconceptions and potential pitfalls are addressed. Chalkboard videos demonstrate step-by-step practical solutions to typical homework problems. Finally, tutorials that implement a step-by-step approach are also offered, allowing students to develop their problem-solving skills.

Official Gazette Philippines, 2008

Physics, Volume 1 John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2019-07-30 A book to help students understand physics concepts and the role the science plays in their lives. This text has been written to engage students in the subject of physics and promote their understanding of key concepts. The loose-leaf volume of Physics 11th Edition, Volume 1, is designed to support student success. It opens by discussing kinematics, forces, dynamics, and work and energy. It also provides students with the concepts related to impulse and momentum, as well as rotational kinematics and dynamics. An exploration of principles, laws, and theories in the text includes Newton's laws of motion, the ideal gas law, and kinetic theory, and the principle of linear superposition and interference phenomena. Students also learn about electric forces, fields, circuits, and potential energy. The concept of light is explored in relation to reflection, refraction, and the wave nature of light. The text's final chapters look at the nature of the atom, nuclear physics, and nuclear energy. Each chapter of the book comes with a concept summary to reinforce what has been presented. Students also expand learning through solving problems, team problems, and concept calculations problems.

Physics, Student Solutions Manual John D. Cutnell, Kenneth

W. Johnson, David Young, Shane Stadler, 2021-12-06 Physics Student Solutions Manual 12th Edition provides students with the valuable fundamental skills by focusing on conceptual understanding problem solving and providing real world applications and relevance Conceptual examples concepts and calculations problems and Check Your Understanding questions help students to understand important physics principles Math skills boxes multi concept problems and examples with reasoning steps help students to improve their reasoning skills while solving problems The Physics Of boxes show students how physics principles are relevant to their everyday lives Physics, Volume One: Chapters 1-17 John D. Cutnell, Kenneth W.

Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 1 17 Physics, 11e Student Solutions Manual John D.

Cutnell, 2018-01-23 The Student Solutions Manual to accompany Physics 11E contains the complete solutions to those Problems in the text that are marked with an SSM icon There are about 600 Problems and they are found at the end of each chapter in the text Step by step solutions are provided and most are comprised of two parts a REASONING part followed by a SOLUTION part The REASONING part explains what motivates the authors procedure for solving the problem before any algebraic or numerical work is done During the SOLUTION part numerical calculations are performed and the answer to the problem is obtained **Evaluation Package for Cutnell and Johnson Physics 8E** Cutnell, 2008-10-28 College Physics

John D. Cutnell, Kenneth W. Johnson, 1989 This two semester introduction to physics assumes only a background in college algebra Treatment is especially strong in its discussion of work and energy Organization is logical and flexible Text is enhanced by hundreds of applications to biology medicine architecture and technology Problem solving techniques are presented via over 250 step by step examples involving data from real life situations Freebody diagrams are found throughout the text not just in the mechanics section and data tables and check boxes of variables help students organize data in the kinematics section Includes 469 thought provoking questions and over 1 600 graded problems Illustrated

Essentials of Physics John D. Cutnell, Kenneth W. Johnson, 2006 No further information has been provided for this title

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