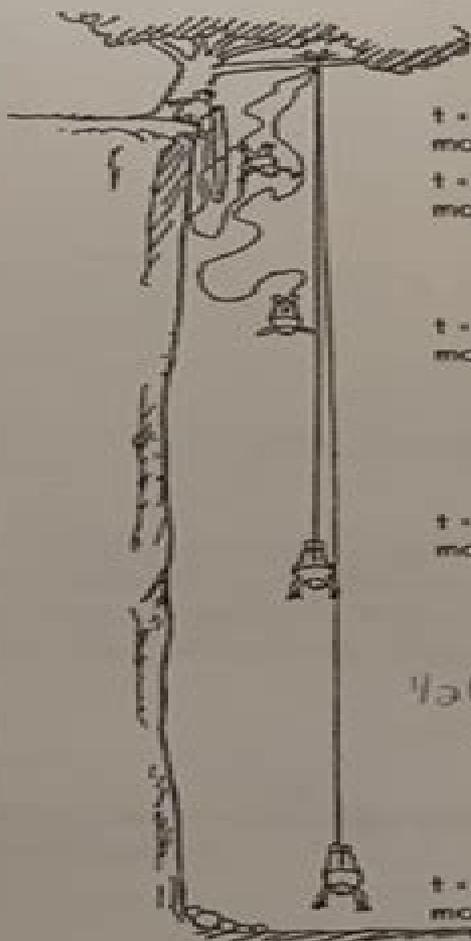


CONCEPTUAL Physics PRACTICE PAGE

Chapter 7 Energy

Momentum and Energy

Show your work and include units!



$t = 0 \text{ s}$
 momentum = $\frac{0 \text{ m/s}}{0 \text{ kg (m/s)}}$

$t = 1 \text{ s}$
 momentum = $\frac{10 \text{ m/s}}{100 \text{ kg (m/s)}}$

$t = 2 \text{ s}$
 momentum = $\frac{20 \text{ m/s}}{2000 \text{ kg (m/s)}}$

$t = 3 \text{ s}$
 momentum = $\frac{30 \text{ m/s}}{3000 \text{ kg (m/s)}}$

$t = 5 \text{ s}$
 momentum = $\frac{0 \text{ m/s}}{0 \text{ kg (m/s)}}$

$\frac{1}{2}(100 \text{ kg})(15 \text{ m/s}^2)$
 $50 \text{ kg (} 250 \text{ m/s}^2)$

Bronco Brown wants to put $Ft = \Delta mv$ to the test and try bungee jumping. Bronco leaps from a high cliff and experiences 3 s of free fall. Then the bungee cord begins to stretch, reducing his speed to zero in 2 s. Fortunately, the cord stretches to its maximum length just short of the ground below.

Fill in the blanks:

Bronco's mass is 100 kg.

Acceleration of free fall is 10 m/s^2 .

Express values in SI units (distance in m, velocity in m/s, momentum in kg·m/s, impulse in N·s, and deceleration in m/s^2).

$d = \frac{1}{2} at^2$

The 3-s free-fall distance of Bronco just before the bungee cord begins to stretch

= 15m

Δmv during the 0 to 3-s interval of free fall

= _____

Δmv during the 3 to 5-s of slowing down

= _____

Impulse during the 3 to 5-s of slowing down

= _____

Average force exerted by the cord during the 3 to 5-s interval of slowing down

= _____

How about work and energy? How much KE does Bronco have 3 s after he first jumps?

11,250 J

How much does gravitational PE decrease during this 3 s?

-15,000 J

What two kinds of PE are changing during the 3 to 5-s slowing-down interval?

Gravitational Potential Energy

Chapter 7 Answers Conceptual Physics

Roman Wölfel



Chapter 7 Answers Conceptual Physics:

Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics

Science and Philosophy Alain Stahl, 2012 The rapid progress of science is shedding new light on the eternal questions of philosophy Alain Stahl provides an exhaustive and coherent examination of the big questions that physics and the life sciences raise today This book is a translation of the second French edition 2010 updated and expanded to include the most recent scientific findings It will be of interest to anyone studying working in or thinking about science and philosophy The author Dr Alain Stahl a scientist by training spent his outstanding professional career working as a chief technical officer and then managing director of several large French chemical companies After retiring he has focused his efforts on integrating insights from scientific and philosophical advances and the present volume is the culmination of this synthesis

International Handbook of Research in History, Philosophy and Science Teaching Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for

this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia

Computational Chemistry Errol G. Lewars, 2010-11-10 This corrected second edition contains new material which includes solvent effects the treatment of singlet diradicals and the fundamentals of computational chemistry Computational Chemistry Introduction to the Theory and Applications of Molecular and Quantum Mechanics is an invaluable tool for teaching and researchers alike The book provides an overview of the field explains the basic underlying theory at a meaningful level that is not beyond beginners and it gives numerous comparisons of different methods with one another and with experiment The following concepts are illustrated and their possibilities and limitations are given potential energy surfaces simple and extended Hueckel methods ab initio AM1 and related semiempirical methods density functional theory DFT Topics are placed in a historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers

Test Bank to Accompany Psychology and Life, Fourteenth Edition John Caruso, 1996 *Engineering Design* Joseph W. Walton, 1991 **Test Bank** Kathleen T. McWhorter, 2003-05 **Physics, Uspekhi**, 2001 **Research in Education**, 1974 *College Physics: Volume 1* Roger Freedman, David L. Tauck, Philip R. Kesten, 2013-07-12 College Physics brings physics to life through a unique approach to the algebra level introductory physics course Its winning combination of annotated art carefully integrated life sciences applications and strong problem solving and conceptual understanding pedagogy makes this the best text available for helping students master the physics they need to know for their future careers Using innovative visual cues to break down physics concepts and sequences in numbered equations and figures College Physics leads students to develop the crucial conceptual understanding they need to be successful in the course Carefully crafted to support students new to college level physics pedagogical features chapter goals Take Home Messages Got the Concept Watch Out guide students to becoming adept problem solvers By incorporating a rigorous presentation of the fundamentals of algebra based introductory physics with formative physiology biomedical and life science topics students learn to connect physics to living systems The ultimate goal is for students to have both a solid foundation in physics and to develop a deeper appreciation for why physics is important to their future work in the life sciences

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How to Prepare for the GED High School Equivalency Exam Murray Rockowitz, Brownstein, Max

Peters, Bolton, 2001 Provides full length practice exams with answers and explanations and includes reviews of all test areas from writing skills to science

Energy Roger Hinrichs, 1996 This text appropriate for energy courses or for any other physical science course emphasising energy explores the basic physical principles related to energy use and the environment Current topics including global warming radioactive waste disposal demand side management and the Rio Earth Summit stimulate thinking about contemporary issues Features Hands on activities demonstrating chapter principles engage students and reinforce learning These experiments now appear within chapter text Focus On boxes highlight interesting applications and unusual facts about energy Special topic sections discuss peripheral or more technical material These appear at chapter ends for individual selection New to this edition Environmental aspects of energy use appear early in the text beginning in chapter 1 and receive greater emphasis than in the first edition This new organization caters to student interest and to the growing awareness of environmental concerns Solar energy appears early as well discussed in chapter 6 sparking student interest and emphasizing the relevancy of this topic An international perspective on energy use acquaints students with the global

Scientia, 1910 **American Journal of Physics**, 1997 **Modern Physics** Wolfson, 1999

Resources in Education, 1974-07 **Intermediate Algebra** Elizabeth Difanis Phillips, Elizabeth D. Phillips, Thomas Butts, Michael Shaughnessy, 1994 Physical Principles of the Plant Biosystem George E. Merva, 1995 Biosystems engineering as an engineering science Mathematical modeling in the biosystem Properties of water in the green plant biosystem Water movement in the soil plant atmosphere continuum Elementary concepts of green plant anatomy Elements of the green plant physiology Soil environment of the green plant Radiant energy in the green plant environment Heat flow in the soil Water movement in the soil Bibliography

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