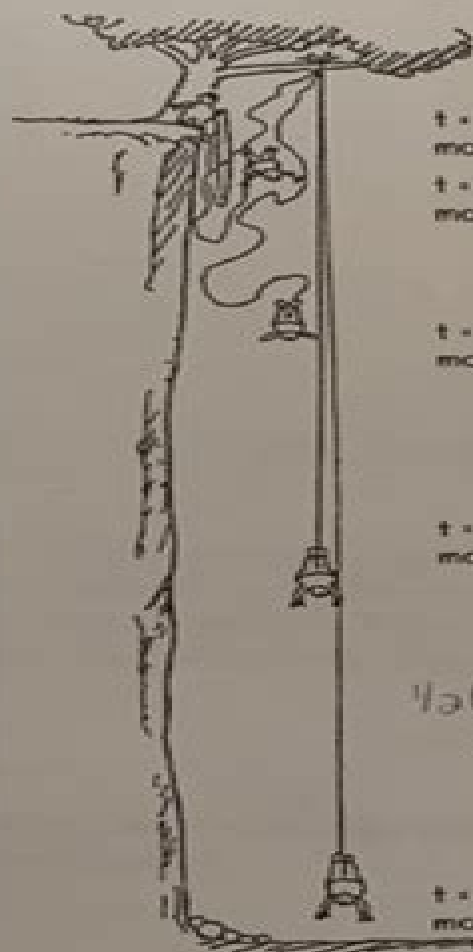


CONCEPTUAL Physics

PRACTICE PAGE

Chapter 7 Energy Momentum and Energy

Show your work and include units!



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

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

$t = 2 \text{ s}$
momentum = $200 \text{ kg}(\text{m/s})$

$t = 3 \text{ s}$
momentum = $200 \text{ kg}(\text{m/s})$

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

$\frac{1}{2}(100 \text{ kg})(15 \text{ m/s}^2)$
 $50 \text{ kg}(255 \text{ m/s}^2)$

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 $\text{kg} \cdot \text{m/s}$, impulse in $\text{N} \cdot \text{s}$, 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 = 15 m

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

Conceptual Physics And Study Workbook Ch 20

**Stanley A. Williams, Kenneth
Brownstein, Thomas Marcella**



Conceptual Physics And Study Workbook Ch 20:

Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed. Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning

Study Guide to Accompany Physics, for Scientists and Engineers Raymond A. Serway, 1982 This is a custom text designed specifically for PHYS 2425 2426 at Brookhaven College

Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978 *Student Study Guide with Programmed Problems to Accompany Fundamentals of Physics & Physics, Parts I & II* Stanley A. Williams, Kenneth Brownstein, Robert Gray, 1974 Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004

Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

Study Guide in Physics: Fluid mechanics, waves, thermodynamics Victor Namias, 1974 **Study Guide in Physics: Electricity, magnetism, geometrical optics, and wave optics** Victor Namias, 1974 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11

Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Fundamentals of Physics, Study Guide Stanley A. Williams, Kenneth Brownstein, Thomas Marcella, 1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters

Chemistry, Study Guide Bernice G. Segal, Peter S. Shenkin, 1989-02-14 This Second Edition of the first year chemistry text known for its clarity of exposition and its large number of illustrative worked problems contains a more rigorous treatment of electrochemistry chemical equilibrium and thermochemistry Worked examples now number over 300 and

exercises over 1460 Student Study Guide & Selected Solutions Manual David D. Reid, 2007 **Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway** Raymond A. Serway, Steven Van Wyk, 1996 **Physics, Volume 1** Robert Resnick, David Halliday, Kenneth S. Krane, 2002 Each chapter includes questions and problems Study Guide, Student Solutions Manual John R. Gordon, 1998 *Study Guide with Computer Exercises to Accompany Physics for Scientists and Engineers, Second Edition [and] Physics for Scientists and Engineers with Modern Physics, Second Edition* Raymond A. Serway, 1986 *Bulletin of the Atomic Scientists*, 1953-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world Physics Physical Science Study Committee, 1961 guide to the literature of mathematics and physics nathan grier parke III, 1958 **Resources in Education**, 1979-10 **Guide to the Literature of Mathematics and Physics Including Related Works on Engineering Science** Nathan Grier Parke, 1958

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