

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

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  $10 \text{ m/s}^2$ .

Express values in SI units (distance in m, velocity in  $\text{m/s}$ , momentum in  $\text{kg} \cdot \text{m/s}$ , impulse in  $\text{N} \cdot \text{s}$ , and deceleration in  $\text{m/s}^2$ ).

$d = 1/2 at^2$

The 3-s free-fall distance of Bronco just before the bungee cord begins to stretch = 15 m

$\Delta mv$  during the 0 to 3-s interval of free fall =                     

$\Delta mv$  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

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

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

Gravitational Potential Energy

# Conceptual Physics 7 Momentum Pg 29

**P. K. Shukla, Lennart Stenflo, R.  
Bingham**



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*Physics, Volume 2* David Halliday, Robert Resnick, Kenneth S. Krane, 2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

*Conceptual Physics*, 2009 **Conceptual physics** Paul G. Hewitt, Jacqueline D. Spears, Abigail Reid Mechtenberg, 2008-05 Conceptual physics media update 10th ed will help you build a strong conceptual understanding of physics by helping you connect physics to real world situations an modern technologies

College Physics Franklin Miller, Dietrich Schroeder, 1987 New edition of a standard college physics textbook **Quantum Optics and the Spectroscopy of Solids** T. Hakiogamalu, Alexander S. Shumovsky, 2013-03-09 Remarkable recent progress in quantum optics has given rise to extremely precise quantum measurements that are used in the research into the fundamentals of quantum physics and in different branches of physics such as optical spectroscopy This progress stimulates new technologies in the field of optical communications optical computation and information systems This state of the art volume presents work from a Summer School on Advances in Quantum Optics and Spectroscopy of Solids held in Ankara Turkey in 1995 The various contributions written by leading scientists in the field cover a wide range of subjects in this exciting area of physics and report new and important results and ideas Topics dealt with include the interaction of quantum light with trapped atoms and condensed matter quantum tomography and phase analysis and many applications of quantum optics from mesoscopic physics to correlation spectroscopy of non classical states which are of major importance in understanding the nature of collective excitations in solids Audience This book will be of interest to postgraduate students and researchers whose work involves quantum optics solid state spectroscopy and its applications **Physics Physical**

Science Study Committee,1965      The Concept of Energy David William Theobald,1966      **Indian Science Abstracts**  
,2000-07      **Chinese Physics Letters** ,2007      Introduction to Mechanics and Heat Nathaniel Herman Frank,1934  
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*Paperbacks in Print* ,1969      New Perspectives of Collective Effects P. K. Shukla,Lennart Stenflo,R. Bingham,1998  
**Mathematical Reviews** ,2007      *International Aerospace Abstracts* ,1970

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