

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 Momentum Answers

Hewitt Paul G.



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Conceptual Physics, 2009 Conceptual physics Paul G. Hewitt, Jacqueline D. Spears, Abigail Reid Mechtenberg, 2008-05
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Proceedings of the Twenty-Third Annual Conference of the Cognitive Science Society Johanna D. Moore, Keith

Stenning,2001 Vol includes all papers and posters presented at 2001 Cog Sci Mtg summaries of symposia invited addresses Deals w issues of repres model g cog processes Appeals to scholars in subdisciplines that comprise Cog Sci Psych Computr Sci Neuro Lin **Evaluation Package for Cutnell and Johnson Physics 8E** Cutnell,2008-10-28 Physics Larry D. Kirkpatrick,Gerald F. Wheeler,2001 The main objective of this book is to provide non science majors with a clear and logical presentation of some of the basic concepts and principles of classical and modern physics To create an appropriate language for students the authors have translated the logic vocabulary and values of physics into longer less tightly structured narration that students can understand As mathematics holds much of the beauty and power of physics the authors have written and included a mathematical supplement PHYSICS A NUMERICAL WORLD VIEW packaged free with this text

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Conceptual Physical Science Paul G. Hewitt,John Suchocki,Leslie A. Hewitt,2004 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt s leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help professors in class and students out of class The book s consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science New Looking Forward and Looking Back boxes connect themes and concepts throughout the book helping students see the big picture More computational coverage eg Figuring Physical Science in chapter calculation allows students to practice the quantitative skills they need to master the concepts of physical science and be able to apply their knowledge Looking Forward and Looking Back boxes in every chapter connect themes and concepts throughout the book helping students see the big picture of physical science Powerful media package includes a comprehensive suite of award winning interactive online tutorials that offer students 24 7 help A media gri *Student Study Guide & Selected Solutions Manual* David D. Reid,2007 *A Time to Hear and Answer* Robert Penn Warren,1976 **2005 Physics Education Research Conference** Paula Heron,Laura McCullough,Jeffrey Marx,2006-03-08 The papers included in these proceedings have been peer reviewed The 2005 Physics Education Research Conference covered a broad spectrum of current research directions

including student learning of specific topics student attitudes and the effectiveness of various teaching methods The emphasis was on undergraduate instruction The theme of this conference was Connecting Physics Education Research Teacher Education at All Levels K 20

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