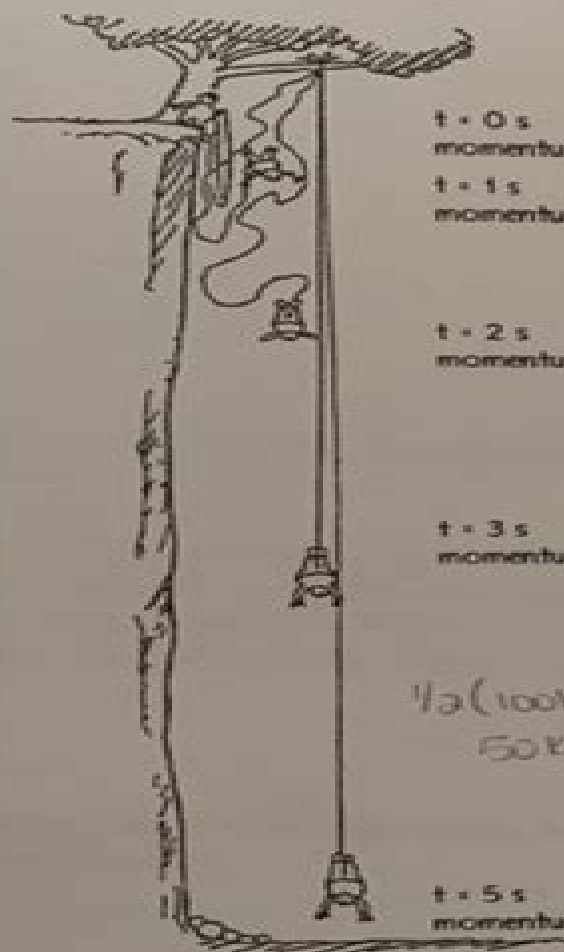


CONCEPTUAL Physics

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 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).

$d = 1/2 at^2$

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

Answers For Conceptual Physics Energy Momentum

**John D. Cutnell, Kenneth W.
Johnson, David Young, Shane Stadler**



Answers For Conceptual Physics Energy Momentum:

Unveiling the Magic of Words: A Overview of "**Answers For Conceptual Physics Energy Momentum**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Answers For Conceptual Physics Energy Momentum**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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