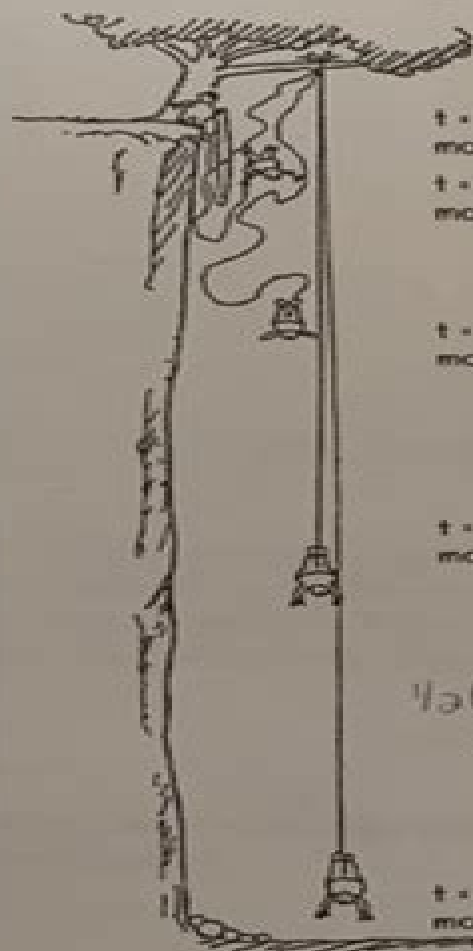


CONCEPTUAL Physics

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

Δmv during the 3 to 5-s of slowing down = $-200 \text{ kg}(\text{m/s})$

Impulse during the 3 to 5-s of slowing down = $-200 \text{ N} \cdot \text{s}$

Average force exerted by the cord during the 3 to 5-s interval of slowing down = -50 N

How about work and energy? How much KE does Bronco have 3 s after he first jumps? $11,250 \text{ J}$

How much does gravitational PE decrease during this 3 s? $-15,000 \text{ J}$

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

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

**Gabriella Casalino, Marta
Cimitile, Pietro Ducange, Natalia Padilla
Zea, Riccardo Pecori, Pietro
Picerno, Paolo Raviolo**

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