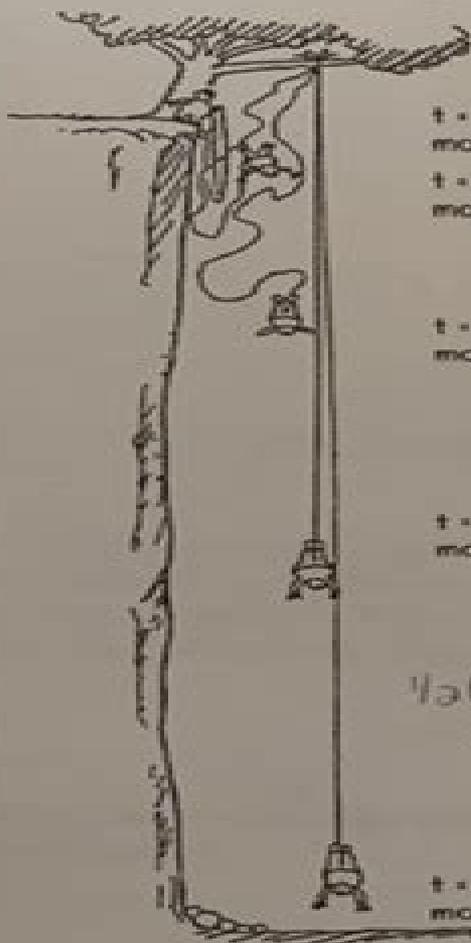


CONCEPTUAL Physics PRACTICE PAGE

Chapter 7 Energy

Momentum and Energy

Show your work and include units!



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

$t = 1\text{ s}$
momentum = $1000\text{ kg}\cdot\text{m/s}$

$t = 2\text{ s}$
momentum = $2000\text{ kg}\cdot\text{m/s}$

$t = 3\text{ s}$
momentum = $2000\text{ kg}\cdot\text{m/s}$

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

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

= $2000\text{ kg}\cdot\text{m/s}$

Δmv during the 3 to 5-s of slowing down

= $-2000\text{ kg}\cdot\text{m/s}$

Impulse during the 3 to 5-s of slowing down

= $-2000\text{ N}\cdot\text{s}$

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

= -1000 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?

= $-15,000\text{ J}$

$1/2(100\text{ kg})(15\text{ m/s})^2$
 $50\text{ kg}(225\text{ m}^2/\text{s}^2)$

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

Gravitational Potential Energy

Chapter 7 Answers Conceptual Physics

Xiaolong Qi



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