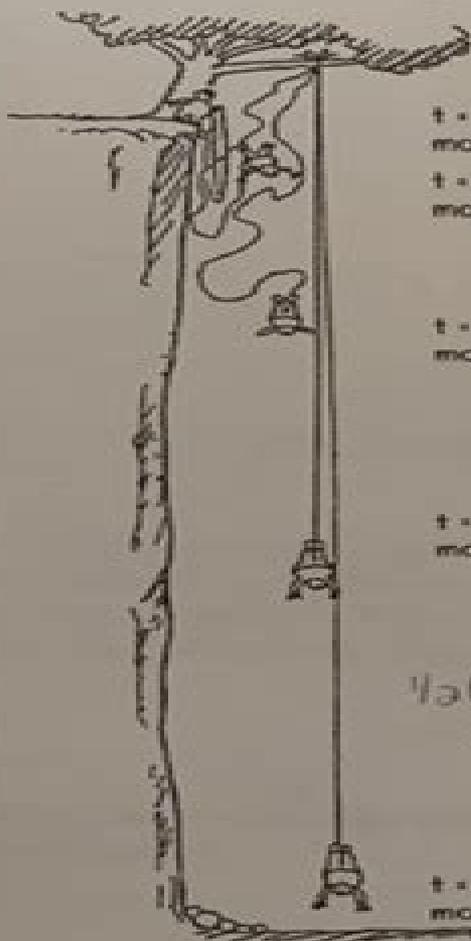


CONCEPTUAL Physics PRACTICE PAGE

Chapter 7 Energy

Momentum and Energy

Show your work and include units!



$t = 0 \text{ s}$
 momentum = $\frac{0 \text{ m/s}}{0 \text{ kg (m/s)}}$

$t = 1 \text{ s}$
 momentum = $\frac{10 \text{ m/s}}{100 \text{ kg (m/s)}}$

$t = 2 \text{ s}$
 momentum = $\frac{20 \text{ m/s}}{2000 \text{ kg (m/s)}}$

$t = 3 \text{ s}$
 momentum = $\frac{30 \text{ m/s}}{3000 \text{ kg (m/s)}}$

$t = 5 \text{ s}$
 momentum = $\frac{0 \text{ m/s}}{0 \text{ kg (m/s)}}$

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

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 kg·m/s, impulse in N·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

= 15m

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

Chapter 7 Answers Conceptual Physics

Joseph W. Walton



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