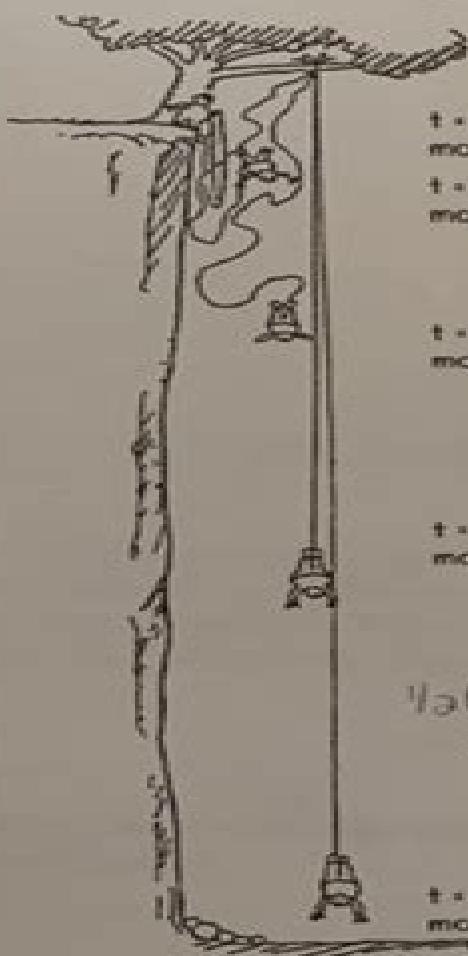


CONCEPTUAL Physics

Chapter 7 Energy Momentum and Energy

PRACTICE PAGE



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

$t = 1 \text{ s}$ $v = 10 \text{ m/s}$
momentum = $1000 \text{ kg} \cdot \text{m/s}$

$t = 2 \text{ s}$ $v = 20 \text{ m/s}$
momentum = $2000 \text{ kg} \cdot \text{m/s}$

$t = 3 \text{ s}$ $v = 30 \text{ m/s}$
momentum = $3000 \text{ kg} \cdot \text{m/s}$

$$1/2(1000\text{kg})(15\text{m/s}^2)$$

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

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

Show your work and include units!

Bronco Brown wants to put $FT = 5 \text{ kN}$ 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/s²).

$$d = 1/2 \cdot at^2$$

The 3-s free-fall distance of Bronco just before the bungee cord begins to stretch

$$= 135 \text{ m}$$

Δmv during the 0 to 3-s interval of free fall

$$= \underline{\hspace{2cm}}$$

Δmv during the 3 to 5-s of slowing down

$$= \underline{\hspace{2cm}}$$

Impulse during the 3 to 5-s of slowing down

$$= \underline{\hspace{2cm}}$$

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

$$= \underline{\hspace{2cm}}$$

How about work and energy? How much KE does Bronco have 3 s after he first jumps?

$$11,350 \text{ J}$$

How much does gravitational PE decrease during this 3 s?

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

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

Gravitational Potential Energy

about
1000 ft

Answers For Conceptual Physics Energy Momentum

Morton M. Sternheim

Answers For Conceptual Physics Energy Momentum:

Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt,1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics. With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter. Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics

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Developments in Mathematical and Conceptual Physics Harish Parthasarathy,2020-06-22

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