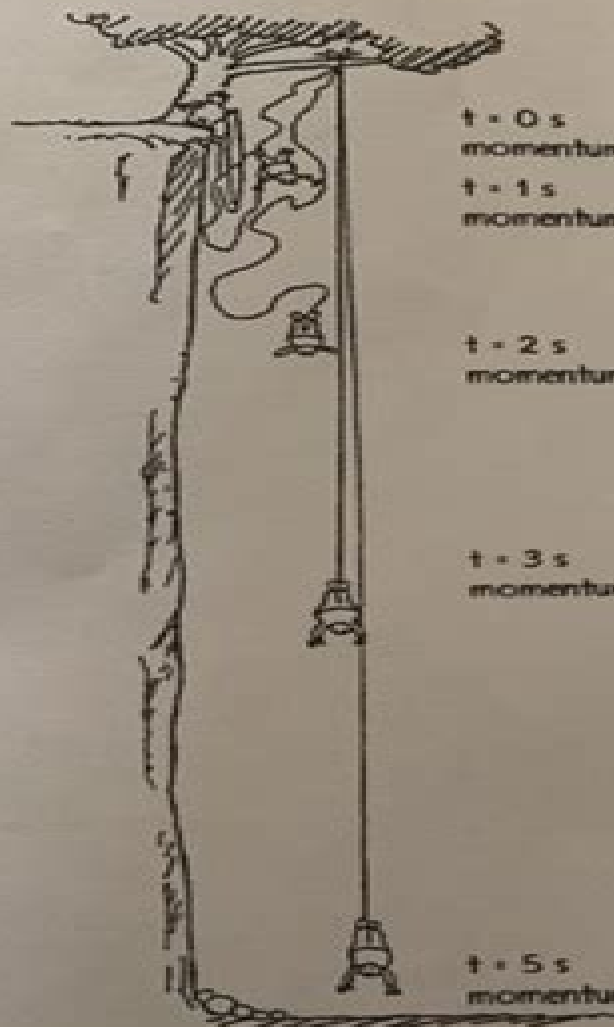


Chapter 7 Energy Momentum and Energy



$t = 0 \text{ s}$ $v =$ _____

momentum = _____

$t = 1 \text{ s}$ $v =$ _____

momentum = _____

$t = 2 \text{ s}$ $v =$ _____

momentum = _____

$t = 3 \text{ s}$ $v =$ _____

momentum = _____

$t = 5 \text{ s}$ $v =$ _____

momentum = _____

Show your work and include units!

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 = _____

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? _____

How much does gravitational PE decrease during this 3 s? _____

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

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Chao Zhang



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El-Hi Textbooks & Serials in Print, 2005 ,2005 *Energy Research Abstracts* ,1982 **CRC Handbook of Chemistry and Physics** David R. Lide,1995-03-09 This student edition features over 50 new or completely revised tables most of which are in the areas of fluid properties and properties of solids The book also features extensive references to other compilations and databases that contain additional information *Instructional Technology Research, Design and Development: Lessons from the Field* Alias, Nor Aziah,2011-11-30 Design and development research which has considerable implications for instructional design focuses on designing and exploring products artifacts and models as well as programs activity and curricula Instructional Technology Research Design and Development Lessons from the Field is a practical text on design and development research in the field of instructional technology This book gives readers an overview of design and development research and how it is conducted in different contexts and for various purposes Further this reference source provides readers with practical knowledge on design and development research gained through investigation of lessons learned in the field **Applied Mechanics Reviews** ,1991 **American Engineer and Railroad Journal** ,1894

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