

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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7 1 Momentum

Tobias Bleicker



Conceptual Physics Concept Development Practice Page 7 1 Momentum:

El-Hi Textbooks & Serials in Print, 2005 ,2005 Resources in Education ,1981 Nanoelectronics and Information Technology Rainer Waser,2012-05-29 This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology On about 1 000 pages it collects the fundamental concepts and key technologies related to advanced electronic materials and devices The obvious strength of the book is its encyclopedic character providing adequate background material instead of just reviewing current trends It focuses on the underlying principles which are illustrated by contemporary examples The third edition now holds 47 chapters grouped into eight sections The first two sections are devoted to principles materials processing and characterization methods Following sections hold contributions to relevant materials and various devices computational concepts storage systems data transmission imaging systems and displays Each subject area is opened by a tutorial introduction written by the editor and giving a rich list of references The following chapters provide a concise yet in depth description in a given topic Primarily aimed at graduate students of physics electrical engineering and information technology as well as material science this book is equally of interest to professionals looking for a broader overview Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields Bulletin of the Atomic Scientists ,1977-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Bulletin of the Atomic Scientists** ,1975-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world Bulletin of the Atomic Scientists ,1975-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **The Software Encyclopedia** ,1986 **Bulletin of the Atomic Scientists** ,1958-01 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Bulletin of the Atomic Scientists** ,1975-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Beama Journal** ,1958 Bulletin of the Atomic Scientists ,1969-02 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world *Bulletin of the Atomic Scientists* ,1970-06 The Bulletin of

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Associations' Publications in Print ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations **Government Reports Announcements & Index** ,1996-08 **Government reports annual index** ,199? *Conceptual Physics* Paul G. Hewitt,2001-06-01 Authored by Paul Hewitt the pioneer of the enormously successful concepts before computation approach Conceptual Physics boosts student success by first building a solid conceptual understanding of physics Hewitt s 3 step learning approach explore develop and apply makes physics more accessible for today s students

This book delves into Conceptual Physics Concept Development Practice Page 7 1 Momentum. Conceptual Physics Concept Development Practice Page 7 1 Momentum is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Conceptual Physics Concept Development Practice Page 7 1 Momentum, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Conceptual Physics Concept Development Practice Page 7 1 Momentum
 - Chapter 2: Essential Elements of Conceptual Physics Concept Development Practice Page 7 1 Momentum
 - Chapter 3: Conceptual Physics Concept Development Practice Page 7 1 Momentum in Everyday Life
 - Chapter 4: Conceptual Physics Concept Development Practice Page 7 1 Momentum in Specific Contexts
 - Chapter 5: Conclusion
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