

CONCEPTUAL Physics

PRACTICE PAGE

Chapter 7 Energy Momentum and Energy

Show your work and include units!



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

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

$t = 2 \text{ s}$
momentum = $200 \text{ kg}(\text{m/s})$

$t = 3 \text{ s}$
momentum = $200 \text{ kg}(\text{m/s})$

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

$\frac{1}{2}(100 \text{ kg})(15 \text{ m/s}^2)$
 $50 \text{ kg}(255 \text{ m/s}^2)$

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 $\text{kg} \cdot \text{m/s}$, impulse in $\text{N} \cdot \text{s}$, 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 = 15 m

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

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John D. Cutnell, Kenneth W. Johnson



Conceptual Physics 7 1 Momentum Pg 29:

Physics John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution [Physics, Volume One: Chapters 1-17](#)

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Cutnell, 2019-03-11 [Physics, Volume Two: Chapters 18-32](#) John D. Cutnell, Kenneth W. Johnson, 2014-12-15 Cutnell and Johnson has been the 1 text in the algebra based physics market for almost 20 years The 10th edition brings on new co authors David Young and Shane Stadler both out of LSU The Cutnell offering now includes enhanced features and functionality The authors have been extensively involved in the creation and adaptation of valuable resources for the text This edition includes chapters 18 32 **An Advanced Course in General College Physics** Paul Leverne Bayley, Charles Clarence Bidwell, 1936 **College Physics** Franklin Miller, Dietrich Schroeder, 1987 New edition of a standard college physics textbook **Socratic Physics** George Mathew, N. N. Mathew, 1998-09-04 Written in language that students understand the authors present problems in this workbook that help students grasp a conceptual understanding of physics They start first with short manageable questions followed by longer ones Mathematical problem solving is emphasized but not the focus of the problems Rather than repeat what physics textbooks present this workbook uses problems to teach students the fundamentals of physics Each problem builds on the preceding successfully completed one so the students are motivated by their success The authors provide detailed solutions in the workbook for some problems for students to learn how to approach and ultimately to solve problems [Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers](#) John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions [Cme, Pse V1\(Ch1-22\)](#) [Pac Infotr](#) John Jewett, Serway, 2006-10 **Physical Review**, 1920 Vols for 1903 include Proceedings of the American Physical Society [Quantum Optics and the Spectroscopy of Solids](#) T. Hakiogammalu, Alexander S. Shumovsky, 2013-03-09 Remarkable recent progress in quantum optics has given rise to extremely precise quantum measurements that are used in the research into the fundamentals of quantum physics and in different branches of physics

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Physics Physical Science Study Committee,1965 **Artificial Intelligence in Chemical Engineering** Farooq Sher,2025-10-04 Artificial Intelligence in Chemical Engineering explores the integration of artificial intelligence AI into various facets of chemical engineering The book introduces historical information highlights current state and trends in AI applications and discusses challenges and opportunities within the field Foundational principles of AI and machine learning are thoroughly covered giving readers a solid understanding of basic AI principles machine learning algorithms and the crucial processes of model training and validation The book then delves into the critical phase of data acquisition and preprocessing for AI models addressing strategies for data collection ensuring data quality and techniques for feature engineering and selection Subsequent chapters cover a wide spectrum of AI applications in chemical engineering From supervised and unsupervised learning for process modeling to the advanced realm of deep learning applications this book explores neural networks convolutional and recurrent architectures and their real world applications in process optimization and analysis Navigates the dynamic intersection of AI and chemical engineering covering ethical considerations interdisciplinary applications and AI s impact on safety sustainability and innovation Bridges the gap between policy and implementation of AI in chemical engineering facilitating a harmonious integration of AI technologies and fostering responsible and effective use within the chemical engineering industry Offers a forward looking approach to guide professionals researchers and students in navigating the dynamic and transformative future of AI in chemical engineering

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