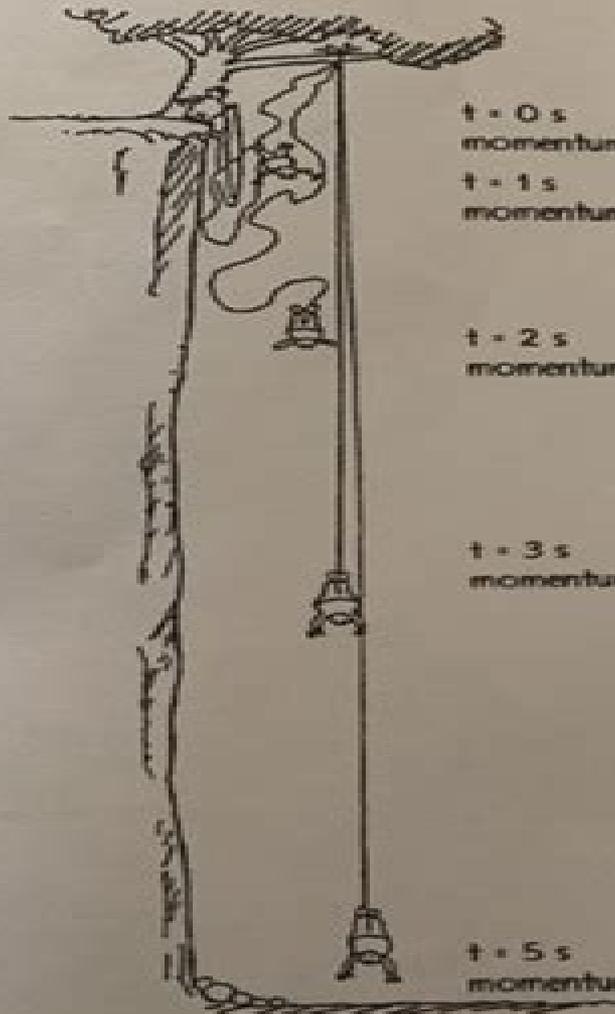


Chapter 7 Energy
Momentum and Energy



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

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).

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

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?

Momentum 7 Practice Page Answers

Paul G. Hewitt



Momentum 7 Practice Page Answers:

Mechanical Engineering Principles John Bird, Carl Ross, 2019-09-03 A student friendly introduction to core mechanical engineering topics This book introduces mechanical principles and technology through examples and applications enabling students to develop a sound understanding of both engineering principles and their use in practice These theoretical concepts are supported by 400 fully worked problems 700 further problems with answers and 300 multiple choice questions all of which add up to give the reader a firm grounding on each topic Two new chapters are included covering the basic principles of matrix algebra and the matrix displacement method The latter will also include guidance on software that can be used via SmartPhones tablets or laptops The new edition is up to date with the latest BTEC National specifications and can also be used on undergraduate courses in mechanical civil structural aeronautical and marine engineering and naval architecture A companion website contains the fully worked solutions to the problems and revision tests practical demonstration videos as well as a glossary and information on the famous engineers mentioned in the text

Science and Mathematics for Engineering John Bird, 2019-10-08 A practical introduction to the engineering science and mathematics required for engineering study and practice Science and Mathematics for Engineering is an introductory textbook that assumes no prior background in engineering This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications A new chapter covers present and future ways of generating electricity an important topic John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems This book is supported by a companion website of materials that can be found at www.routledge.com/bird This resource includes fully worked solutions of all the further problems for students to access and the full solutions and marking schemes for the revision tests found within the book for instructor use In addition all 447 illustrations will be available for downloading by lecturers

Science for Engineering John Bird, 2015-09-07 A practical introduction to the engineering science required for engineering study and practice Science for Engineering is an introductory textbook that assumes no prior background in engineering This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics

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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 Relativity For all readers interested in conceptual physics **Edexcel Additional Science - Higher Tier**, 2006-09 This Success Revision Guide offers accessible content to help students manage their revision and prepare for the exam efficiently The content is broken into manageable sections and advice is offered to help build students confidence Exam tips and techniques are provided to support students throughout the revision process *GCSE Additional Science Higher* Hannah Kingston, 2006-09 Covers the 2006 Gateway Additional Science specification for all exam boards AQA Edexcel and OCR for students going on to study Additional Science Part of the Success series this title emphasises the shift from fact learning to investigating and understanding how science works *Group Practice Journal*, 2005 *Public Health Reports*, 2000

Proceedings of the ... Annual Convention of the American Railway Engineering Association American Railway Engineering Association, 1917 List of members in v 1 10 Mastering Essential English Skills Jerry D. Reynolds, 1977 Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 Locomotive Firemen's Magazine, 1903 **Railway Age**, 1942 **The Ohio Banker**, 1925 **The Musician**, 1923 *The School Journal*, 1885 *Engineering News-record*, 1917 Conceptual Physical Science Paul G. Hewitt, 1998-11 Conceptual Physical Science Third Edition takes learning physical science to a new level by combining Hewitt's leading conceptual approach and friendly writing style in a new edition that provides stronger integration of the sciences more quantitative coverage and a wealth of new media resources to help readers The dynamic new media program includes hundreds of animations and interactive tutorials

developed specifically for students taking physical science courses Media references throughout the book point readers to additional online help KEY TOPICS The book s consistent high quality coverage includes five new chapters on chemistry astronomy and earth science for an even more balanced approach to physical science For college instructors students or anyone interested in physical science **The Practical Teacher** ,1882

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