

**Concept-Development
Practice Page****9-1****Work and Energy**

1. How much work (energy) is needed to lift an object that weighs 200 N to a height of 4 m?

800 J

2. How much power is needed to lift the 200-N object to a height of 4 m in 4 s?

200 W

3. What is the power output of an engine that does 60,000 J of work in 10 s?

6 kW

4. The block of ice weighs 500 newtons.

- a. What is the mechanical advantage of the incline?

2:1

- b. How much force is needed to push it up the incline (neglect friction)?

250 N

5. All the ramps are 5 m high. We know that the KE of the block at the bottom of the ramp will be equal to the loss of PE (conservation of energy). Find the speed of the block at ground level in each case. [Hint: Do you recall from earlier chapters how long it takes something to fall a vertical distance of 5 m from a position of rest (assume $g = 10 \text{ m/s}^2$)? And how much speed a falling object acquires in this time? This gives you the answer to Case 1. Discuss with your classmates how energy conservation gives you the answers to Cases 2 and 3.]



Case 1: Speed = 10 m/s Case 2: Speed = 10 m/s Case 3: Speed = 10 m/s

Block on A reaches bottom first; greater acceleration and less ramp distance. Although it will have the same speed at bottom, the time it takes to reach that speed is different!

CONCEPTUAL PHYSICS

Conceptual Physics Chapter Work And Energy Answers

John D. Cutnell, Kenneth W. Johnson



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Physics, Volume One: Chapters 1-17 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 1 17

Work, Energy and Power Sanjay Kumar, 2020-09-16 This text book is primarily intended for students who are preparing for the entrance tests of IIT JEE NEET AIIMS and other esteemed colleges in same fields This text is equally useful to the students preparing for their school exams Main Features of the Book 1 Every concept is given in student friendly language with various solved problems and checkpoint questions The solution is provided with problem solving approach and discussion 2 Special attention is given to tricky topics like work energy theorem conservative and non conservative forces conservation of mechanical energy work done by non conservative forces power of pump and chain related problems so that student can easily solve them with fun 3 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains NEET level are indicated by double dots whereas challenging problems advanced level are indicated by three dots Answer keys with hints and solutions are provided at the end of the chapter

Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway Raymond A.

Serway, Steven Van Wyk, 1996 *GO TO Objective NEET 2021 Physics Guide 8th Edition* Disha Experts, **(Free Sample)**

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Physics Art Hobson, 2007 For a one semester course in liberal arts physics Hobson has four unifying themes How do we know the significance of post Newtonian physics modern physics energy and the social context of physics These themes become evident in the writing and pedagogy throughout the fourth edition

Study Guide and Student Solutions Manual Douglas Brandt, 2000 Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the reader into the physics. The new edition features an unrivaled suite of media and on line resources that enhance the understanding of physics. Many new topics have been incorporated such as the Otto cycle, lens combinations, three phase alternating current and many more. New developments and discoveries in physics have been added including the Hubble space telescope age and inflation of the universe and distant planets. Modern physics topics are often discussed within the framework of classical physics where appropriate. For scientists and engineers who are interested in learning physics. *Study Guide, Student Solutions Manual* Raymond A. Serway, John R. Gordon, 1998. *Microphysics* Donald Earl DeGraaf, 1978. **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them. Now includes even more technology tools and activities to support differentiated instruction. *Conceptual Physics*, 1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981. **How to Solve Physics Problems** Edwin M. Ripin, 1961. **Concepts, Problems, and Solutions in General Physics** Raymond A. Serway, 1975. **Student Study Guide and Solutions Manual for General Physics** Morton M. Sternheim, 1986. *Principles of Physics* Jerry B. Marion, William Frank Hornyak, 1984. *Physics, for Scientists and Engineers* Raymond A. Serway, 1982. This is a custom text designed specifically for PHYS 2425 2426 at Brookhaven College. *Macrophysics* Donald Earl DeGraaf, 1981. *Study Guide to Accompany Fuller/Fuller/Fuller Physics* Thomas C. Campbell, Robert G. Fuller, 1978. **Proceedings of the American Society of Civil Engineers** American Society of Civil Engineers, 1923. *Proceedings* American Society of Civil Engineers, 1923.

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