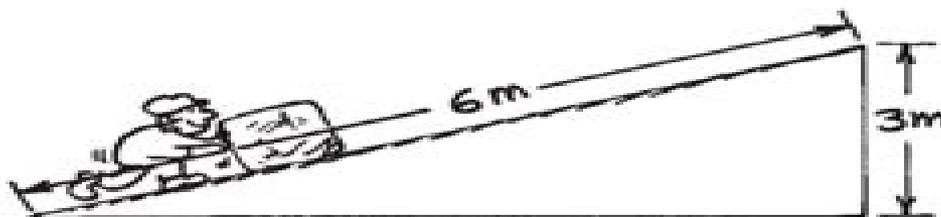


Concept-Development Practice Page **9-1**

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

Physics Concept Development Practice Page Answers Work

S Baum



Physics Concept Development Practice Page Answers Work:

Teaching Science ,2008 **Books of India** , **Content Ontology Design Patterns: Qualities, Methods, and Tools** Karl Hammar,2017-09-06 Ontologies are formal knowledge models that describe concepts and relationships and enable data integration information search and reasoning Ontology Design Patterns ODPs are reusable solutions intended to simplify ontology development and support the use of semantic technologies by ontology engineers ODPs document and package good modelling practices for reuse ideally enabling inexperienced ontologists to construct high quality ontologies Although ODPs are already used for development there are still remaining challenges that have not been addressed in the literature These research gaps include a lack of knowledge about 1 which ODP features are important for ontology engineering 2 less experienced developers preferences and barriers for employing ODP tooling and 3 the suitability of the eXtreme Design XD ODP usage methodology in non academic contexts This dissertation aims to close these gaps by combining quantitative and qualitative methods primarily based on five ontology engineering projects involving inexperienced ontologists A series of ontology engineering workshops and surveys provided data about developer preferences regarding ODP features ODP usage methodology and ODP tooling needs Other data sources are ontologies and ODPs published on the web which have been studied in detail To evaluate tooling improvements experimental approaches provide data from comparison of new tools and techniques against established alternatives The analysis of the gathered data resulted in a set of measurable quality indicators that cover aspects of ODP documentation formal representation or axiomatisation and usage by ontologists These indicators highlight quality trade offs for instance between ODP Learnability and Reusability or between Functional Suitability and Performance Efficiency Furthermore the results demonstrate a need for ODP tools that support three novel property specialisation strategies and highlight the preference of inexperienced developers for template based ODP instantiation neither of which are supported in prior tooling The studies also resulted in improvements to ODP search engines based on ODP specific attributes Finally the analysis shows that XD should include guidance for the developer roles and responsibilities in ontology engineering projects suggestions on how to reuse existing ontology resources and approaches for adapting XD to project specific contexts **World Power** ,1930 *El-Hi Textbooks & Serials in Print* ,2005 ,2005 Resources in Education ,1998-05 *New Technical Books* New York Public Library,1926 **Engineering** ,1925 **Proceedings of the Engineers' Club of Philadelphia** ,1927 Leslie's ,1912 **Complete Catalog of Books in All Fields** Dover Publications, Inc,1997 *Scientific American* ,1912 Nuclear News ,1966 **Glencoe Accounting** Donald J. Guerrieri,Haber,Hoyt,Turner,1995 American Journal of Physics ,1984 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics *Current Index to Journals in Education* ,2000 **Library & Information Science Abstracts** ,2000 *The Journal of the Acoustical Society of America* Acoustical Society of America,2000 **Resources in Education** ,1990

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