

# Physics

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(Chapter 6) (Work Energy and Power) (Exercises)

(Class 11)

## Question 6.1:

The sign of work done by a force on a body is important to understand. State carefully if the following quantities are positive or negative:

- (a) work done by a man in lifting a bucket out of a well by means of a rope tied to the bucket.
- (b) work done by gravitational force in the above case,
- (c) work done by friction on a body sliding down an inclined plane,
- (d) work done by an applied force on a body moving on a rough horizontal plane with uniform velocity,
- (e) work done by the resistive force of air on a vibrating pendulum in bringing it to rest.

## Answer 6.1:

- (a) Positive  
In the given case, force and displacement are in the same direction. Hence, the sign of work done is positive. In this case, the work is done on the bucket.
- (b) Negative  
In the given case, the direction of force (vertically downward) and displacement (vertically upward) are opposite to each other. Hence, the sign of work done is negative.
- (c) Negative  
Since the direction of frictional force is opposite to the direction of motion, the work done by frictional force is negative in this case.
- (d) Positive  
Here the body is moving on a rough horizontal plane. Frictional force opposes the motion of the body. Therefore, in order to maintain a uniform velocity, a uniform force must be applied to the body. Since the applied force acts in the direction of motion of the body, the work done is positive.
- (e) Negative  
The resistive force of air acts in the direction opposite to the direction of motion of the pendulum. Hence, the work done is negative in this case.

## Question 6.2:

A body of mass 2 kg initially at rest moves under the action of an applied horizontal force of 7 N on a table with coefficient of kinetic friction = 0.1. Compute the

- (a) work done by the applied force in 10 s,
- (b) work done by friction in 10 s,
- (c) work done by the net force on the body in 10 s,
- (d) change in kinetic energy of the body in 10 s, and interpret your results

## Answer 6.2:

Mass of the body,  $m = 2$  kg

Applied force,  $F = 7$  N

Coefficient of kinetic friction,  $\mu = 0.1$

Initial velocity,  $u = 0$

Time,  $t = 10$  s

The acceleration produced in the body by the applied force is given by Newton's second law of motion as:

$$a' = \frac{F}{m} = \frac{7}{2} = 3.5 \text{ m/s}^2$$

Frictional force is given as:

$$f = \mu mg = 0.1 \times 2 \times 9.8 = -1.96 \text{ N}$$

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# Chapter 6 Physics Test

**Peipei Pang**



## Chapter 6 Physics Test:

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**DLCS** , 19??      *Educational Tests and Measurements* Walter Scott Monroe, James Clarence De Voss, Frederick James

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## **Table of Contents Chapter 6 Physics Test**

1. Understanding the eBook Chapter 6 Physics Test
  - The Rise of Digital Reading Chapter 6 Physics Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 6 Physics Test
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 6 Physics Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 6 Physics Test
  - Personalized Recommendations
  - Chapter 6 Physics Test User Reviews and Ratings

- Chapter 6 Physics Test and Bestseller Lists
- 5. Accessing Chapter 6 Physics Test Free and Paid eBooks
  - Chapter 6 Physics Test Public Domain eBooks
  - Chapter 6 Physics Test eBook Subscription Services
  - Chapter 6 Physics Test Budget-Friendly Options
- 6. Navigating Chapter 6 Physics Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 6 Physics Test Compatibility with Devices
  - Chapter 6 Physics Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 6 Physics Test
  - Highlighting and Note-Taking Chapter 6 Physics Test
  - Interactive Elements Chapter 6 Physics Test
- 8. Staying Engaged with Chapter 6 Physics Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 6 Physics Test
- 9. Balancing eBooks and Physical Books Chapter 6 Physics Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 6 Physics Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 6 Physics Test
  - Setting Reading Goals Chapter 6 Physics Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 6 Physics Test
  - Fact-Checking eBook Content of Chapter 6 Physics Test
  - Distinguishing Credible Sources

- 
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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web in new tanks the api 650 standard doesn t necessarily asks for a settlement measurement to be done during hydrostatic

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tests if there is no settlement expected for example a tank over a giant rock it might not need settlement measurements but that s a decision that is entirely up to the owner

**hydrotest api 650 google groups** - Mar 11 2023

web may 1 2011 to material googlegroups com gents after the completion of a tank hydro test some temporary attachment welding has been made on the shell and roof plates what action needs to be taken at

**api 650 doubt hidrostatic test api american** - Feb 27 2022

web feb 4 2011 the following component welds shall be examined by the liquid penetrant method before the hydrostatic test of the tank a the shell to bottom inside attachment weld b all welds of opening connections in tank shell that are not completely radiographed including nozzle and manhole neck welds and neck to flange welds