

## Chapter

# 6

# Work, Energy and Power

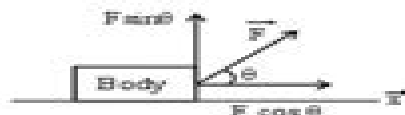
AAJ KA TOPPER

### WORK

#### Work Done by a Constant Force

Work done ( $W$ ) by a force  $\vec{F}$  in displacing a body through a displacement  $x$  is given by

$$W = \vec{F} \cdot \vec{x} = Fx \cos \theta$$



Where  $\theta$  is the angle between the applied force  $\vec{F}$  and displacement  $\vec{x}$ .

The S.I. unit of work is joule, CGS unit is erg and its dimensions are  $[ML^2T^{-2}]$ .

1 joule =  $10^7$  erg

(a) When  $\theta = 0^\circ$  then  $W = Fx$

(b) When  $\theta$  is between  $0$  and  $\pi/2$  then  $W = Fx \cos \theta = \text{positive}$

(c) When  $\theta = \pi/2$  then  $W = Fx \cos 90^\circ = 0$  (zero)

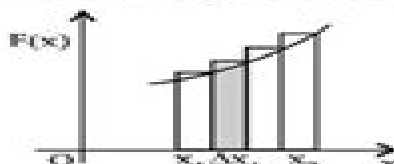
Work done by centripetal force is zero as in this case angle  $\theta = 90^\circ$

(d)  $\therefore$  When  $\theta$  is between  $\pi/2$  and  $\pi$  then

$$W = Fx \cos \theta = \text{negative}$$

#### Work Done by a Variable Force

When the force is an arbitrary function of position, we need the techniques of calculus to evaluate the work done by it. The figure shows  $F_x$  as function of the position  $x$ . We begin by replacing the actual variation of the force by a series of small steps.



The area under each segment of the curve is approximately equal to the area of a rectangle. The height of the rectangle is a constant value of force, and its width is a small displacement  $\Delta x$ . Thus, the step involves an amount of work  $\Delta W_n = F_n \Delta x_n$ . The total work done is approximately given by the sum of the areas of the rectangles.

$$\text{i.e., } W = \sum F_n \Delta x_n$$



As the size of the steps is reduced, the tops of the rectangle more closely trace the actual curve shown in figure. If the limit  $\Delta x \rightarrow 0$ , which is equivalent to letting the number of steps tend to infinity, the discrete sum is replaced by a continuous integral.

$$W = \lim_{\Delta x_n \rightarrow 0} \sum F_n \Delta x_n = \int F_x dx$$

Thus, the work done by a force  $F_x$  from an initial point A to final

point B is  $W_{A \rightarrow B} = \int_{x_A}^{x_B} F_x dx$

The work done by a variable force in displacing a particle from  $x_1$  to  $x_2$

$$W = \int_{x_1}^{x_2} F dx = \text{area under force displacement graph}$$

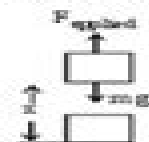
**CAUTION :** When we find work, we should be cautious about the question, work done by which force? Let us take an example to understand this point. Suppose you are moving a body up without acceleration.

Work done by applied force

$$W_{app} = \vec{F}_{app} \cdot \vec{x} = F_{app} x$$

Work done by gravitational force

$$W_{grav} = \vec{F}_g \cdot \vec{x} = -mgx$$



# Conceptual Physical Science Explorations Chapter 6

## Work And Energy

**Elizabeth Prettejohn**



## **Conceptual Physical Science Explorations Chapter 6 Work And Energy:**

**Wonder** Frank C. Keil, 2022-03-01 How we can all be lifelong wonderers restoring the sense of joy in discovery we felt as children From an early age children pepper adults with questions that ask why and how Why do balloons float How do plants grow from seeds Why do birds have feathers Young children have a powerful drive to learn about their world wanting to know not just what something is but also how it got to be that way and how it works Most adults on the other hand have little curiosity about whys and hows we might unlock a door for example or boil an egg with no idea of what happens to make such a thing possible How can grown ups recapture a child s sense of wonder at the world In this book Frank Keil describes the cognitive dispositions that set children on their paths of discovery and explains how we can all become lifelong wonderers Keil describes recent research on children s minds that reveals an extraordinary set of emerging abilities that underpin their joy of discovery their need to learn not just the facts but the underlying causal patterns at the very heart of science This glorious sense of wonder however is stifled beginning in elementary school Later with little interest in causal mechanisms and motivated by intellectual blind spots as adults we become vulnerable to misinformation and manipulation ready to believe things that aren t true Of course the polymaths among us have retained their sense of wonder and Keil explains the habits of mind and ways of wondering that allow them and can enable us to experience the joy of asking why and how

*Physlet Quantum Physics* Mario Belloni, Wolfgang Christian, Anne J. Cox, 2006 Physlet Quantum Physics contains a collection of over 200 ready to run interactive exercises These media focused critical thinking and problem solving exercises are based on carefully designed computer simulations generated in awardwinning Java applets Physlet Quantum Physics is based on current educational experimental and theoretical research and gives students an interactive visual representation of the often difficult to visualize physical phenomena in quantum physics [Future Spacecraft Propulsion Systems and Integration](#) Paul A. Czysz, Claudio Bruno, Bernd Chudoba, 2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike **After the Pre-Raphaelites** Elizabeth Prettejohn, 1999 Victorian aestheticism is reinterpreted here as a significant exploration of what it might mean to produce works of art in the modern world This study addresses not only art for art s sake but its links with science and morality

**New Horizons in Mathematics and Science Education** ,2001      **ENC Focus** ,2001      Explorations on Martha Rogers' Science of Unitary Human Beings Violet M. Malinski,1986 Aufsatzsammlung zur Entwicklung der Idee und Theorie Science of Unitary Human Beings von Martha Rogers und zur Weiterentwicklung und praktischen Anwendung dieser Theorie in der Krankenpflege und in Studien      *Whitaker's Cumulative Book List* ,1969      **Connected Newsletter** ,2003  
*Mathematical explorations in behavioral science* Fred Massarik,1965      **Resources in Education** ,1995      **Physics Briefs** ,1994      *Science Or Society?* Mike Hales,1982      *Analysis and Evaluation of Conceptual Models of Nursing* Jacqueline Fawcett,1989 Covers the development of nursing knowledge for nurses and nursing students Discusses components of the structural hierarchy of contemporary nursing knowledge such as the metaparadigm theories and empirical indicators and outlines conceptual models such as King s General Systems Framework and Roy s Adaptation Model This third edition includes discussion on the substantive and process elements of implementing conceptual model based nursing practice Annotation copyright by Book News Inc Portland OR      Body Mechanics and Self-care Manual Marian Wolfe Dixon,2001 This book shows bodywork professionals who may be experiencing symptoms of fatigue stress or overuse how to heal themselves and prevent injuries from recurring It teaches healthy bodyworkers how to stay that way and to help clients who suffer from repetitive motion injuries Chapter topics include principles of physics moving and static objects weight and pressure eastern influences on body mechanics unpatterning repetitive motion and other common injuries taking care of yourself physiologically and psychologically and adaptations for special populations conditions For all licensed massage therapists neuropaths chiropractors and chiropractic assistants acupuncturists physical therapists and physical therapist assistants certified nursing assistants and expressive art therapists      **The World of Matter-energy** Paul Franz Brandwein,1964      **Paperbacks in Print** ,1969      Nanostructure Physics and Fabrication Mark A. Reed,Wiley P. Kirk,1989-08-28 Nanostructure Physics and Fabrication contains the contributions of an interdisciplinary group of specialists in nanometer scale fabrication physics of mesoscopic systems electronic transport and materials science brought together to discuss the current status of nanometer scale electronic structures These articles provide the most current assessment of this active and growing area of interest The introductory chapter provides comments and background material for those somewhat unfamiliar with this new area of research and serves as a condensed overview and summary of the contributions that follow Most current assessment of the field Articles by experts in the field Results presented here will impact the future of microelectronics      Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,2006      **Resources in Education** ,1995

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### **Table of Contents Conceptual Physical Science Explorations Chapter 6 Work And Energy**

1. Understanding the eBook Conceptual Physical Science Explorations Chapter 6 Work And Energy
  - The Rise of Digital Reading Conceptual Physical Science Explorations Chapter 6 Work And Energy
  - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physical Science Explorations Chapter 6 Work And Energy
  - 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 Conceptual Physical Science Explorations Chapter 6 Work And Energy
  - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physical Science Explorations Chapter 6 Work And Energy
  - Personalized Recommendations
  - Conceptual Physical Science Explorations Chapter 6 Work And Energy User Reviews and Ratings
  - Conceptual Physical Science Explorations Chapter 6 Work And Energy and Bestseller Lists
5. Accessing Conceptual Physical Science Explorations Chapter 6 Work And Energy Free and Paid eBooks
  - Conceptual Physical Science Explorations Chapter 6 Work And Energy Public Domain eBooks
  - Conceptual Physical Science Explorations Chapter 6 Work And Energy eBook Subscription Services

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