

ENERGY, WORK, POWER AND MACHINES

Energy

This is the ability to do work.

Forms of energy.

1. **Chemical energy:** - this is found in foods, oils charcoal firewood etc.
2. **Mechanical energy:** - there are two types;
 - i. **Potential energy** - a body possesses potential energy due to its relative position or state
 - ii. **Kinetic energy** - energy possessed by a body due to its motion i.e. wind, water
 - iii. **Wave energy** - wave energy may be produced by vibrating objects or particles i.e. light, sound or tidal waves.
 - iv. **Electrical energy** - this is energy formed by conversion of other forms of energy i.e. generators.

Transformation and conservation of energy

Any device that facilitates energy transformations is called **transducer**. Energy can be transformed from one form to another i.e. mechanical - electrical - heat energy. **The law of conservation of energy states that "energy cannot be created or destroyed; it can only be transformed from one form to another".**

Work

Work is done when a force acts on a body and the body moves in the direction of the force.

Work done = force $\times$ distance moved by object

$$W = F \times d$$

Work is measured in Nm. **1 Nm = 1 Joule (J)**

Examples

1. Calculate the work done by a stone mason lifting a stone of mass 15 kg through a height of 2.0 m. (take $g=10\text{N/kg}$)
Solution
Work done = force $\times$ distance
 $= (15 \times 10) \times 2 = 300 \text{ Nm or } 300 \text{ J}$
2. A girl of mass 50 kg walks up a flight of 12 steps. If each step is 30 cm high, calculate the work done by the girl climbing the stairs.
Solution
Work done = force $\times$ distance
 $= (50 \times 10) \times (12 \times 30) + 100 = 500 \times 3.6 = 1,800 \text{ J}$
3. A force of 7.5 N stretches a certain spring by 5 cm. How much work is done in stretching this spring by 8.0 cm?
Solution

Work Energy Power And Machines Study Guide

Guillaume Favre



Work Energy Power And Machines Study Guide:

CHST Study Guide Mike L Turner,2025-02-11 What if the construction site you work on could be safer more efficient and free from avoidable accidents In an industry where risks are ever present ensuring the health and safety of workers is not just a legal obligation but a moral one This comprehensive guide delves deep into the critical role of health and safety technicians in the construction industry providing invaluable insights for professionals looking to create safer work environments and reduce the number of injuries on site Whether you re a seasoned construction manager a safety officer or just entering the field this book will equip you with the essential tools to identify evaluate and mitigate hazards that pose risks to construction workers From understanding industry regulations to implementing cutting edge safety protocols you ll learn how to tackle challenges like fall protection electrical safety and equipment handling Packed with practical tips step by step guidelines and real world examples this resource highlights the importance of proactive safety measures effective communication and rigorous training programs Discover the importance of proper PPE Personal Protective Equipment learn how to conduct site hazard assessments and gain an in depth understanding of emergency response procedures Not just for safety experts this book also serves as an essential tool for anyone involved in the construction process contractors project managers and site workers alike empowering them to prioritize safety without compromising productivity It emphasizes a culture of safety that integrates seamlessly with daily operations and ensures that every worker goes home in one piece If you re committed to creating a safer construction environment reducing risks and improving overall job site performance this book is your ultimate guide Learn how to make safety a non negotiable priority and transform your construction site into a safer more efficient workplace today

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Table of Contents Work Energy Power And Machines Study Guide

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

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