

# Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

Suppose that Hooke's Law is valid for a spring that obeys Hooke's Law. Graphically represent the force vs. displacement relation under the following assumptions (20 pts):



1. Graphically determine the amount of energy stored while stretching the spring described above from  $x = 0$  to  $x = 0.20$  m. The area under the force vs. displacement curve is shaded.

2. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.20$  m.

3. Graphically determine the amount of energy stored while stretching the spring described above from  $x = 0$  to  $x = 0.30$  m. The area under the force vs. displacement curve is shaded.

4. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.30$  m.

5. Write down  $U = \frac{1}{2}kx^2$  for the spring in case 2.

Now graph force vs. displacement for a spring that obeys Hooke's Law. The area under the curve is shaded in light blue. The area under the curve is shaded in light blue. The area under the curve is shaded in light blue.



6. Determine the spring constant for the spring.

The spring constant is  $k = 500$  N/m.

7. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.20$  m.

8. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.30$  m.

9. The work done by the spring is:

a. The amount of work done by the spring is  $U = 10$  J.

b.  $U = 10$  J

10. The work done by the spring is  $U = 10$  J.

11. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.20$  m.

12. Express  $U = \frac{1}{2}kx^2$  in J for  $k = 500$  N/m and  $x = 0.30$  m.

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## **Table of Contents Modeling Instruction 20u8 Energy Ws2 V3 0 Key**

1. Understanding the eBook Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - The Rise of Digital Reading Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - 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 Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Personalized Recommendations
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key User Reviews and Ratings
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key and Bestseller Lists
5. Accessing Modeling Instruction 20u8 Energy Ws2 V3 0 Key Free and Paid eBooks
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key Public Domain eBooks
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key eBook Subscription Services
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key Budget-Friendly Options
6. Navigating Modeling Instruction 20u8 Energy Ws2 V3 0 Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key Compatibility with Devices
  - Modeling Instruction 20u8 Energy Ws2 V3 0 Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Highlighting and Note-Taking Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Interactive Elements Modeling Instruction 20u8 Energy Ws2 V3 0 Key
8. Staying Engaged with Modeling Instruction 20u8 Energy Ws2 V3 0 Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Modeling Instruction 20u8 Energy Ws2 V3 0 Key
- 9. Balancing eBooks and Physical Books Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Modeling Instruction 20u8 Energy Ws2 V3 0 Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Setting Reading Goals Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - Fact-Checking eBook Content of Modeling Instruction 20u8 Energy Ws2 V3 0 Key
  - 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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