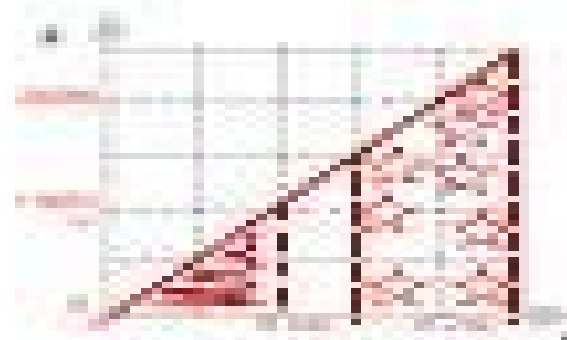


Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

Suppose that Hooke's Law is valid for a spring that obeys Hooke's Law. Graphically represent the relationship between displacement and force on displacement. Below each of the relationships, write the equation.



1. Graphically represent the amount of energy stored when stretching the spring constant value from 0 to 100 N/m. The area under the line is shaded in red.

2. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

3. Graphically represent the amount of energy stored when stretching the spring constant value from 0 to 1.0 N/m. The area under the line is shaded in red.

4. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

5. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

Now graph Force vs. Displacement for a spring that obeys Hooke's Law. The area under the line is shaded in red. The area under the line is shaded in red. The area under the line is shaded in red.



6. A constant force of 100 N is applied to the spring.

The spring constant is 100 N/m. The area under the line is shaded in red.

7. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

8. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

9. The work done by the spring is:

a. The amount of work done by the spring is 4.5 J.

b. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

c. The work done by the spring is 4.5 J.

10. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

11. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

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Table of Contents Energy Ws2 V3 1 Key

1. Understanding the eBook Energy Ws2 V3 1 Key
 - The Rise of Digital Reading Energy Ws2 V3 1 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Energy Ws2 V3 1 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 Energy Ws2 V3 1 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Ws2 V3 1 Key
 - Personalized Recommendations

- Energy Ws2 V3 1 Key User Reviews and Ratings
- Energy Ws2 V3 1 Key and Bestseller Lists
- 5. Accessing Energy Ws2 V3 1 Key Free and Paid eBooks
 - Energy Ws2 V3 1 Key Public Domain eBooks
 - Energy Ws2 V3 1 Key eBook Subscription Services
 - Energy Ws2 V3 1 Key Budget-Friendly Options
- 6. Navigating Energy Ws2 V3 1 Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Energy Ws2 V3 1 Key Compatibility with Devices
 - Energy Ws2 V3 1 Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Energy Ws2 V3 1 Key
 - Highlighting and Note-Taking Energy Ws2 V3 1 Key
 - Interactive Elements Energy Ws2 V3 1 Key
- 8. Staying Engaged with Energy Ws2 V3 1 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Energy Ws2 V3 1 Key
- 9. Balancing eBooks and Physical Books Energy Ws2 V3 1 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Energy Ws2 V3 1 Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Energy Ws2 V3 1 Key
 - Setting Reading Goals Energy Ws2 V3 1 Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Energy Ws2 V3 1 Key
 - Fact-Checking eBook Content of Energy Ws2 V3 1 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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