

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 when the force is 100 N. The area under the line is shaded in red.

2. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

3. Graphically represent the amount of energy stored when stretching the spring constant when the force is 100 N. The area under the line is shaded in red.

4. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

5. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

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. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

7. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

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12. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

13. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

14. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

15. The area under the line is $\frac{1}{2}Fx = \frac{1}{2}(100 \text{ N})(0.30 \text{ m}) = 15 \text{ J}$.

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Scott C. Dulebohn

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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