

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 relationship mathematically. (20 pts)



1. Graphically represent the amount of energy stored when stretching the spring constant when the force is 100 N. (20 pts)
The area under the line is shaded in red, representing the energy stored.

2. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

3. Graphically represent the amount of energy stored when stretching the spring constant when the force is 100 N. (20 pts)
The area under the line is shaded in red, representing the energy stored.

4. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

5. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

Now graph Force vs. Displacement for a spring that obeys Hooke's Law. Graphically represent the relationship between the amount of energy stored and displacement. (20 pts)



6. Express the spring constant for a spring.

The spring constant is the slope of the line.

7. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

8. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

9. The work done by a spring is:

a. the amount of energy stored in a spring when it is stretched.

b. the work done by a spring when it is stretched.

c. the work done by a spring when it is stretched.

10. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

11. Express $U = \frac{1}{2}kx^2$ in terms of k and displacement x in N/m.

Energy Ws2 V3 1 Key

Peipei Pang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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