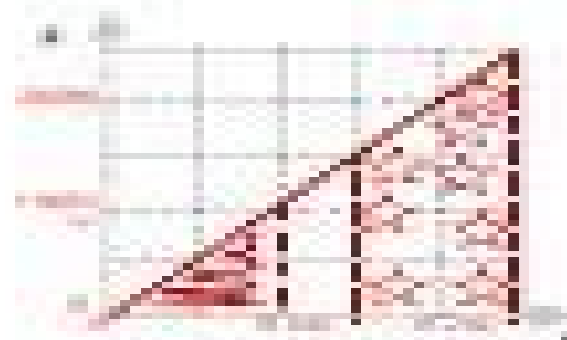


Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

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 energy stored in the spring at $x = 0.20$ m.

$U = \frac{1}{2}kx^2$
 $U = \frac{1}{2}(500)(0.20)^2$

b. the $U = \frac{1}{2}kx^2$ for the spring at $x = 0.30$ m.

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

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

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Marco Cascella

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