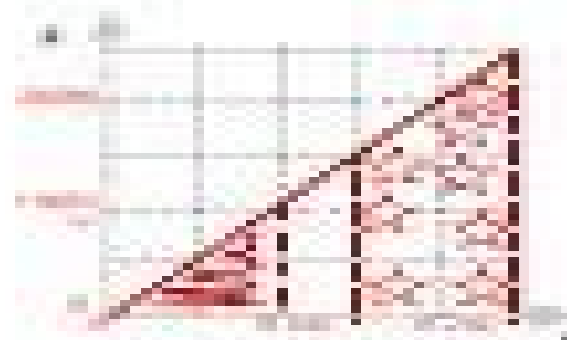


Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

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 (if it is).



1. Graphically represent the amount of energy stored when stretching the spring described above from $x = 0$ to $x = 0.20$ m. The area above will be a triangle with the base being doubled.

2. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

3. Graphically represent the amount of energy stored when stretching the spring described above from $x = 0.10$ m to $x = 0.20$ m. The area above will be a triangle with the base being doubled.

4. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

5. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

Now graph Force versus Displacement using data collected during one trial. Graphically represent the relationship between the amount of stretching (spring displacement) and the force applied.



6. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

7. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

8. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

9. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

10. The work done by the spring is:

a. the amount of force applied for stretch the spring 1.0 m. $U_{\text{spring}} = \frac{1}{2}kx^2$

b. $U_{\text{spring}} = \frac{1}{2}kx^2$

c. the U_{spring} associated with stretching the spring 1.0 m.

d. $U_{\text{spring}} = \frac{1}{2}kx^2$

11. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

12. Is $U_{\text{spring}} = \frac{1}{2}kx^2$ or $U_{\text{spring}} = \frac{1}{2}kx$ (displacement) $x = 0.20$?

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