

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 represent the amount of energy stored when stretching the spring described above from $x = 0$ to $x = 10$ m. The area under the line is shaded in red.

2. Express $E = \frac{1}{2}kx^2$ in J for $k = 100$ N/m and $x = 10$ m.

3. Graphically represent the amount of energy stored when stretching the spring described above from $x = 0$ to $x = 10$ m. The area under the line is shaded in red.

4. Express $E = \frac{1}{2}kx^2$ in J for $k = 100$ N/m and $x = 10$ m.

5. Express $E = \frac{1}{2}kx^2$ in J for $k = 100$ N/m and $x = 10$ m.

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



6. Express the energy stored in the spring.

7. Express the energy stored in the spring.

$$E = \frac{1}{2}kx^2 = \frac{1}{2}(100)(10)^2 = 5000 \text{ J}$$

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8. The work done by the spring is:

9. The amount of energy stored in the spring is:

$$E = \frac{1}{2}kx^2 = \frac{1}{2}(100)(10)^2 = 5000 \text{ J}$$

10. Express the energy stored in the spring.

$$E = \frac{1}{2}kx^2 = \frac{1}{2}(100)(10)^2 = 5000 \text{ J}$$

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Energy Ws2 V3 Key

Hussin A.Rothana

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

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