

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 when stretching the spring described above from $x = 0$ to $x = 0.5$ m. The area under the line is shaded in light blue.

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (200 \text{ N/m}) (0.5 \text{ m})^2 = 25 \text{ J}$$

2. Graphically determine the amount of energy stored when stretching the spring described above from $x = 0.5$ m to $x = 1.0$ m. The area under the line is shaded in light blue.

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (200 \text{ N/m}) (1.0 \text{ m})^2 = 100 \text{ J}$$

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (200 \text{ N/m}) (1.0 \text{ m})^2 = 100 \text{ J}$$

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



3. Determine the spring constant for the spring.

The spring constant is the slope of the line.

$$k = \frac{F}{x} = \frac{10 \text{ N}}{0.1 \text{ m}} = 100 \text{ N/m}$$

$$k = \frac{F}{x} = \frac{20 \text{ N}}{0.2 \text{ m}} = 100 \text{ N/m}$$

4. The work done by the spring is:

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

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (100 \text{ N/m}) (0.1 \text{ m})^2 = 5 \text{ J}$$

b. the energy stored in the spring when it is stretched.

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (100 \text{ N/m}) (0.1 \text{ m})^2 = 5 \text{ J}$$

$$U = \frac{1}{2} k x^2 = \frac{1}{2} (100 \text{ N/m}) (0.1 \text{ m})^2 = 5 \text{ J}$$

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Roman Wölfel

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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