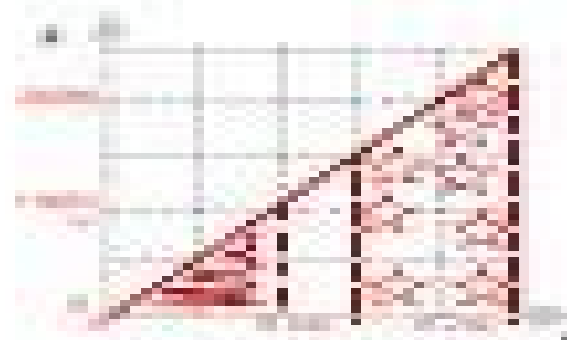


# Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

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 through a displacement from  $x = 0$  to  $x = 0.20$  m. The area under the line is shaded in light blue.

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 through a displacement from  $x = 0.20$  m to  $x = 0.30$  m. The area under the line is shaded in light red.

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

5. Total displacement  $x = 0.30$  m. The area is shaded in light orange.

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 from  $x = 0.20$  m to  $x = 0.30$  m is shaded in light red. The area under the line from  $x = 0$  to  $x = 0.30$  m is shaded in light orange.



6. Determine the spring constant for each spring.

For spring 1, the area under the line is shaded in light blue.

1.  $k = \frac{F}{x} = \frac{100 \text{ N}}{0.20 \text{ m}} = 500 \text{ N/m}$

2.  $k = \frac{F}{x} = \frac{100 \text{ N}}{0.20 \text{ m}} = 500 \text{ N/m}$

7. The work done by the spring is:

a. the amount of energy stored in each of the springs 1 and 2.

1.  $U = \frac{1}{2}kx^2 = \frac{1}{2}(500 \text{ N/m})(0.20 \text{ m})^2 = 10 \text{ J}$

2.  $U = \frac{1}{2}kx^2 = \frac{1}{2}(500 \text{ N/m})(0.20 \text{ m})^2 = 10 \text{ J}$

3.  $U = \frac{1}{2}kx^2 = \frac{1}{2}(500 \text{ N/m})(0.30 \text{ m})^2 = 22.5 \text{ J}$

4.  $U = \frac{1}{2}kx^2 = \frac{1}{2}(500 \text{ N/m})(0.30 \text{ m})^2 = 22.5 \text{ J}$

# Energy Ws2 V3 Key

**Byungjin Cho ,Yonghun Kim**



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*World Congress III of Chemical Engineering*, 1986      **Preparation and Properties of 2D Materials** Byungjin Cho, Yonghun Kim, 2020-12-10 Since the great success of graphene atomically thin layered nanomaterials called two dimensional 2D materials have attracted tremendous attention due to their extraordinary physical properties Specifically van der Waals heterostructured architectures based on a few 2D materials named atomic scale Lego have been proposed as unprecedented platforms for the implementation of versatile devices with a completely novel function or extremely high performance shifting the research paradigm in materials science and engineering Thus diverse 2D materials beyond existing bulk materials have been widely studied for promising electronic optoelectronic mechanical and thermoelectric applications Especially this Special Issue included the recent advances in the unique preparation methods such as exfoliation based synthesis and vacuum based deposition of diverse 2D materials and also their device applications based on interesting physical properties Specifically this Editorial consists of the following two parts Preparation methods of 2D materials and Properties of 2D materials      **Thermophiles** Juergen Wiegel, Adams W.W. Michael, 1998-08-27 Late 1990s developments in the study of thermophiles have had considerable significance on theories of evolution These micro organisms are able to thrive at temperatures near or even above 100 degrees Celsius and scientists have begun to study their biology in an attempt to provide clues about the beginnings of life on our planet Researchers      **Key Concepts** Glen Phelan, 2014

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