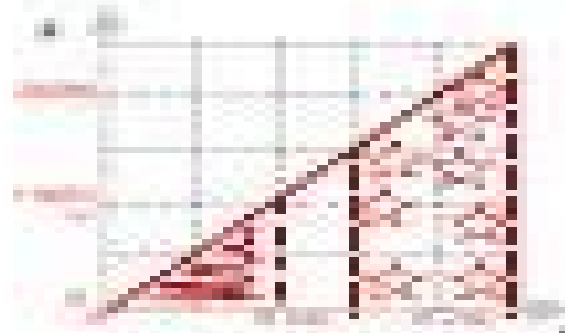


Energy Storage and Transfer Model Worksheet 2: Hooke's Law and Elastic Energy

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 equation.



1. Graphically represent the amount of energy stored when stretching the spring constant value from 0 to 100 N/m. The area under the line is shaded in red.

2. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

3. Graphically represent the amount of energy stored when stretching the spring constant value from 0 to 1.0 N/m. The area under the line is shaded in red.

4. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

5. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

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



6. A constant force of 100 N is applied to the spring.

The spring constant is 100 N/m. The area under the line is shaded in red.

7. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

8. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

9. The work done by the spring is:

a. The amount of work done by the spring is 4.5 J.

b. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

c. The work done by the spring is 4.5 J.

10. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(100 \text{ N/m})(0.30 \text{ m})^2 = 4.5 \text{ J}$

11. $U = \frac{1}{2}kx^2$ or $U = \frac{1}{2}(1.0 \text{ N/m})(0.30 \text{ m})^2 = 0.045 \text{ J}$

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M Lipman



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2d Inorganic Materials Beyond Graphene C N R Rao, Umesh Vasudeo Waghmare, 2017-08-28 Two dimensional materials have had widespread applications in nanoelectronics catalysis gas capture water purification energy storage and conversion Initially based around graphene research has since moved on to looking at alternatives including transition metal dichalcogenides layered topological insulators metallic mono chalcogenides borocarbonitrides and phosphorene This book provides a review of research in the field of these materials including investigation into their defects analysis on hybrid structures focusing on their properties and synthesis and characterization and applications of 2D materials beyond graphene It is designed to be a single point reference for students teachers and researchers of chemistry and its related subjects particularly in the field of nanomaterials

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integral part of the business curriculum in mature and developing countries alike And well it should be The economy affects decisions by investors manufacturers distributors importers and exporters etc in all parts of the world Often it is the difference between growth and profitability on one hand and stagnation or failure on the other In recent years as the world economy has undergone overwhelming changes especially in East Asia and now in the advanced countries understanding what is going on in the local economy and out there in the world has become a particular challenge to managers The new developments of which the new economy is the most recent one do not supercede the basic theoretical framework of macroeconomics But they add greatly to the challenge of understanding the economic situation and to its uncertainty This book was originally written to meet the needs of a business curriculum based on the program at the Sasin Graduate Institute of Business Administration of Chulalongkorn University in Bangkok in collaboration with the Wharton and Kellogg Business Schools in the United States The book is intended for a broad audience both domestic and international that includes mature MBA business students intermediate level undergraduates and informed laypersons

Matrix Infrared Spectroscopy and Density Functional Theory Calculations of Novel Transition Metal-containing Molecules Binyong Liang,2002

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Doklady Akademiiа наук SSSR.,1967

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web pablo picasso 1881 1973 b Málaga 25 oct 1881 d mougins nr cannes 8 apr 1973 spanish painter sculptor printmaker draughtsman ceramicist and designer active mainly in france the most famous versatile prolific and influential artist of the 20th century although it is conventional to divide his work into certain phases

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web pablo picasso born oct 25 1881 Málaga Spain died april 8 1973 Mougins France Spanish born French painter sculptor printmaker ceramicist and stage designer trained by his father a professor of drawing he exhibited his first works at 13 after moving permanently to Paris in 1904 he replaced the predominantly blue tones of his so called

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web pablo ruiz picasso a b 25 october 1881 8 april 1973 was a Spanish painter sculptor printmaker ceramicist and theatre designer who spent most of his adult life in France

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web nov 14 2023 the most expensive picasso paintings ever sold dora maar au chat 1941 image credit pablo picasso org dora maar au chat or dora maar with cat is a strong display of picasso s chromatic style and cubist influence through the depiction of his lover created in 1941 the oil on canvas painting shows the complicated and distant

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web nov 10 2023 pablo picasso spanish painter sculptor printmaker ceramicist and stage designer one of the most influential artists of the 20th century and the creator with georges braque of cubism among his best known works are les demoiselles d avignon 1909 and guernica 1937