

Energy Storage and Transfer Model Worksheet Quantitative Energy Calculations & Energy Conservation

We use the table below each time we calculate:

1. When we calculate kinetic energy, mass is **2000 kg** (assuming 2000 kg car) or **500 kg** (assuming 500 kg person)

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(2000 \text{ kg})(v)^2$$

$$K = \frac{1}{2}(500 \text{ kg})(v)^2 = \frac{1}{4}(2000 \text{ kg})(v)^2 \quad \text{or} \quad K = \frac{1}{4}mv^2 \quad \text{or} \quad K = \frac{1}{2}Mv^2$$

2. When we calculate energy stored in the **spring**, **spring constant** of **100000 N/m** (assuming 100000 N/m spring) or **10000 N/m** (assuming 10000 N/m spring)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(100000 \text{ N/m})x^2$$

3. Kinematic given: 1 kg physics book moving across surface where the **frictionless** (frictionless and gravitational energy at the surface, which is equal to the static reference level) is a **reference level**.

$$U_{\text{grav}} = mgy$$

or: also called

$$U_{\text{grav}} = mgh \quad \text{or} \quad U_{\text{grav}} = mgy$$

- 4a. How much **kinetic energy** before the book?

$$K_{\text{before}} = \frac{1}{2}(1 \text{ kg})(2 \text{ m/s})^2 = \frac{1}{2}(2 \text{ kg m}^2/\text{s}^2) = 1 \text{ J}$$

- or: How **velocity** of 2 kg mass about the book?

$$K_{\text{before}} = \frac{1}{2}(1 \text{ kg})(2 \text{ m/s})^2 = \frac{1}{2}(2 \text{ kg m}^2/\text{s}^2) = 1 \text{ J}$$

$$K_{\text{before}} = \frac{1}{2}(1 \text{ kg})(2 \text{ m/s})^2 = \frac{1}{2}(2 \text{ kg m}^2/\text{s}^2) = 1 \text{ J}$$

- 4b. A **spring** (not a battery) (frictionless and has a **spring constant** of **100 N/m**). How much energy is stored (unbalanced)?

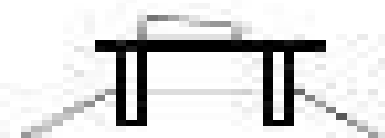
$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(100 \text{ N/m})(0.1 \text{ m})^2 = 0.5 \text{ J}$$

5. When does there is **no gravitational** (not spring) (not mass) (not kinetic) energy?

$$U_{\text{grav}} = mgy = (1 \text{ kg})(9.8 \text{ m/s}^2)(0) = 0 \text{ J}$$

6. When does energy is stored (not a battery) (not spring) (not mass) (not kinetic) energy?

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(100 \text{ N/m})(0.1 \text{ m})^2 = 0.5 \text{ J}$$



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JG Myers

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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web mar 16 2016 under the method section it shows you various spline options personally i recommend you start with pchip instead of cubic splines unless there is a compelling reason for you to use pure cubic splines read the docs try it yourself and ask again with code if you get stuck

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web jun 3 2020 1 verknüpfen Übersetzen kommentiert john d errico am 8 jun 2020 akzeptierte antwort john d errico i try to interpolate the function with given datas i am using matlab function csape but i am not sure this is a natural cubic spline interpolation or just cubic spline

natural spline interpolation matlab coefficients mathworks - Jan 15 2023

web oct 12 2017 the question wants me to evaluate a natural cubic spline at different s x values i am able to do that and get correct responses but the question also asks for the aj bj cj dj xj that are in the code at the current s x value and i can not figure out how to find those values at the current s x value could anyone help me figure this out

natural cubic spline interpolation using matlab - Oct 12 2022

web matlab program natural cubic spline interpolation find the approximate value of f 1 5 from x y 0 1 1 e

interpolation how to generate natural spline in matlab stack overflow - May 07 2022

web dec 7 2015 i noticed that there are only not a knot and clamped spline in matlab which is assembled in the function spline can we change the original code in matlab a little bit so it can perform or only perform natural spline

cubic spline interpolation in matlab stack overflow - Aug 10 2022

web jul 23 2012 the problem of this method is that it produces discontinuous estimation of the function this is annoying when modeling function that describes natural phenomenon because these functions are often continuous amongst other interpolation methods the cubic spline interpolation can solve this problem

cubic spline data interpolation matlab spline mathworks - Jul 21 2023

web description example s spline x y xq returns a vector of interpolated values s corresponding to the query points in xq the values of s are determined by cubic spline interpolation of x and y example pp spline x y returns a piecewise polynomial structure for use by ppval and the spline utility unmkpp

natural cubic spline interpolation matlab answers mathworks - Jun 20 2023

web mar 19 2021 how do you get the equation of the spline from matlab the code successfully graphs the cubic spline given my points but i need the actual equation for the function of the spline for further calcu