

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 car)

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(500 \text{ kg})v^2 \quad \text{if we assume we have a 500 kg car}$$

2. When we calculate energy stored in the **spring**, both quantities of **displacement** and **spring** (force constant) change to **1000 N/m**

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})x^2$$

3. Kinematic given: If **gravitational** forces acting on the object are the **only** forces, the **gravitational** energy of the object, which is equal to the state reference level is a **constant** value:

$$U_g = mgy$$

or, also called

$$U_g = mgh \quad \text{if } y = h \quad \text{or } y = 0$$

- 4a. When **force** is **constant**, before the third:

$$U_s = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.2 \text{ m})^2 = 20 \text{ J}$$

- or, when **spring** is **constant** about the third:

$$U_s = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.2 \text{ m})^2 = 20 \text{ J}$$

$$U_s = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.2 \text{ m})^2 = 20 \text{ J} \quad \text{if we assume we have a 500 kg car}$$

- 4b. A **spring** with **displacement** (distance) and **spring constant** of **1000 N/m**. When **elastic** energy is **constant** (unbalanced):

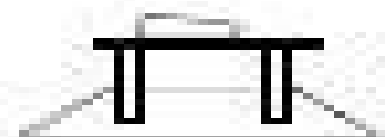
$$U_s = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.2 \text{ m})^2 = 20 \text{ J}$$

5. When there is a **full** **gravitational** **well** **spring** (at **bottom** of **gravitational** **well**):

$$U_g = mgy = (2000 \text{ kg})(9.8 \text{ m/s}^2)(0.2 \text{ m}) = 3920 \text{ J}$$

6. When **total** energy is **constant** (at **bottom** and **spring** is **unbalanced** **at** **top**):

if the **spring** is **constant** about **2000 N/m** (unbalanced) **2000 N/m**, $U = \frac{1}{2}kx^2 = \frac{1}{2}(2000 \text{ N/m})(0.2 \text{ m})^2 = 40 \text{ J}$



Unit 8 Energy Ws 5 V3 1

David G. Palmer



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HUD Rehabilitation Energy Guidelines for Multi-family Dwellings, 1996 1979 *Department of Energy Authorization* United States. Congress. House. Committee on Science and Technology, 1978 *Modern Trends in Constructive Function Theory* E. B. Saff, Douglas Patten Hardin, Doron Shaul Lubinsky, Brian Z. Simanek, 2016-03-31 Contains the proceedings of the conference Constructive Functions 2014 held in May 2014 The papers in this volume include results on polynomial approximation rational approximation Log optimal configurations on the sphere random continued fractions ratio asymptotics for multiple orthogonal polynomials the bivariate trigonometric moment problem and random polynomials

The Journal of Industrial and Engineering Chemistry, 1915 **Space Settlements** Richard D. Johnson, Charles Holbrow, 1977

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Lazzaretto, Andrea Toffolo, 2020-01-31 This Special Issue addresses the general problem of a proper match between the demands of energy users and the units for energy conversion and storage by means of proper design and operation of the overall energy system configuration The focus is either on systems including single plants or groups of plants connected or not to one or more energy distribution networks In both cases the optimum design and operation involve decisions about thermodynamic processes about the type number design parameters of components plants and storage capacities and about mutual interconnections and the interconnections with the distribution grids The problem is absolutely general encompassing design and operation of energy systems for single houses groups of houses industries industrial districts municipal areas regions and countries The presented papers show that similar approaches can be used in different applications although a general standard has not been achieved yet **Problems with the E-rate Program** United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations, 2004 Vacuum Distillation, Vapor Pyrolysis Water Recovery System Utilizing Radioisotopes for Thermal Energy H. Esten, R. W. Murray, L. Cooper, 1967 A laboratory prototype system for producing storing and dispensing potable water derived from urine and wash water was designed fabricated and tested The design incorporated the previously established technique of vacuum distillation of liquid wastes followed by pyrolysis of the steam in the presence of a catalyst For the first time radioisotope heat sources containing Plutonium 238 were employed in both the evaporator and pyrolysis sections to minimize the electrical power requirements for a potential space application The system was also designed to utilize electrical and waste heat sources and is capable of zero gravity operation The basic process demonstrated its feasibility for long duration operation producing high quality potable water Peripheral equipment such as liquid level sensors and phase separators need further development Unit weight was 120 pounds and power consumption was 56 watt hours per pound of water recovered A flight optimized design using isotopes would weigh 58 pounds and consume 8 watt hours per pound of water recovered Author **Energy Research Abstracts** , 1992 **Federal Energy Regulatory Commission Reports** United States. Federal Energy Regulatory Commission, **Biogas** David G. Palmer, 1981 This book is for livestock and poultry farmers students county agents energy advisors and others interested in biogas It is designed for people with a basic knowledge of farm operations The purpose is to provide an understanding of how biogas can be produced and used and to set a frame of reference for assessing the operations that make sense for biogas production This material is not intended as a system design or operations guide however Professional help is advised for planning and designing individual applications **Energy Monitoring & Control Systems** , 1983 **The Michigan Technic** , 1961 **Funk & Scott Index of Corporations & Industries** , 1963 *Molecular Magnets Recent Highlights* Wolfgang Linert, Michel Verdaguer, 2012-12-06 The book deals with recent scientific highlights on molecular magnetism in Europe Molecular magnetism is a new interdisciplinary discipline gathering together chemists and physicists theoreticians and experimentalists The book intends to provide the reader with

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