

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

We use the table below each time we work a problem.

1. How much kinetic energy does a 1000 kg car have if it is moving 10 m/s? The right-hand side of the table is empty because

$$\begin{aligned} KE_{\text{car}} &= \frac{1}{2}mv^2 = \frac{1}{2}(1000\text{ kg})(10\text{ m/s})^2 \\ KE_{\text{car}} &= 50,000\text{ J} \end{aligned}$$

2. How much energy does a 1 kg object have just before it starts moving with speed 10 m/s? The right-hand side of the table is empty because

$$KE_{\text{object}} = \frac{1}{2}mv^2 = 50\text{ J}$$

3. How much potential energy does a 1 kg object have just before it starts moving with speed 10 m/s? The right-hand side of the table is empty because

$$PE_{\text{object}} = mgh$$

we don't know

$$PE_{\text{object}} = mgh = 10\text{ J}$$

4. How much kinetic energy does a 1 kg object have just before it starts moving with speed 10 m/s?

$$KE_{\text{object}} = \frac{1}{2}mv^2 = 50\text{ J}$$

5. How much potential energy does a 1 kg object have just before it starts moving with speed 10 m/s?

$$PE_{\text{object}} = mgh = 10\text{ J}$$

6. How much kinetic energy does a 1 kg object have just before it starts moving with speed 10 m/s?

$$KE_{\text{object}} = \frac{1}{2}mv^2 = 50\text{ J}$$

7. A spring is compressed 10 cm. How much potential energy does it have? The right-hand side of the table is empty because

$$PE_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(100\text{ N/m})(0.1\text{ m})^2 = 5\text{ J}$$

8. How much kinetic energy does a 1 kg object have just before it starts moving with speed 10 m/s?

$$KE_{\text{object}} = \frac{1}{2}mv^2 = 50\text{ J}$$

9. How much potential energy does a 1 kg object have just before it starts moving with speed 10 m/s?

$$PE_{\text{object}} = mgh = 10\text{ J}$$

U8 Energy V3 Test

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Intelligent Manufacturing and Energy Sustainability A.N.R. Reddy,Deepak Marla,Margarita N. Favorskaya,Suresh Chandra Satapathy,2021-04-02 This book includes best selected high quality research papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability ICIMES 2020 held at the Department of Mechanical Engineering Malla Reddy College of Engineering Technology MRCET Maisammaguda Hyderabad India during August 21 22 2020 It covers topics in the areas of automation manufacturing technology and energy sustainability and also includes original works in the intelligent systems manufacturing mechanical electrical aeronautical materials automobile bioenergy and energy sustainability **Advances in Energy and Combustion** Ashwani K. Gupta,Ashoke De,Suresh K.

Aggarwal,Abhijit Kushari,Akshai K. Runchal,2021-08-07 This book provides state of the art advances in several areas of importance in energy combustion power propulsion environment using fossil fuels and alternative fuels and biofuels production and utilization Availability of clean and sustainable energy is of greater importance now than ever before in all sectors of energy power mobility and propulsion Written by internationally renowned experts the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels are provided The tailored technical tracks and contributions from the world renowned technical experts are portrayed in the respective field to highlight different but complementary views on fuels combustion power and propulsion and air toxins with special focus on current and future R D needs and activities The energy and environment sustainability require a multi pronged approach involving development and utilization of new and renewable fuels design of fuel flexible combustion systems that can be easily operated with the new fuels and develop novel and environmentally friendly technologies for improved utilization of all kinds of gas liquid and solid fuels This volume is a useful book for practicing engineers research engineers and managers in industry and research labs academic institutions graduate students and final year undergraduate students in Mechanical Chemical Aerospace Energy and Environmental Engineering **Electrical Logs of Water Wells and Test Holes on File at the Bureau of Geology and Energy Resources** William Davison Easom,James P. Bradshaw,Robert James Smith,1979

Mathematical Analysis in Fluid Mechanics Raphaël Danchin,Reinhard Farwig,Jiří Neustupa,Patrick Penel,2018-06-26 This volume contains the proceedings of the International Conference on Vorticity Rotation and Symmetry IV Complex Fluids and the Issue of Regularity held from May 8 12 2017 in Luminy Marseille France The papers cover topics in mathematical fluid mechanics ranging from the classical regularity issue for solutions of the 3D Navier Stokes system to compressible and non Newtonian fluids MHD flows and mixtures of fluids Topics of different kinds of solutions boundary conditions and interfaces are also discussed Verifying Eddy Correlation Measurements of Dry Deposition W. J. Massman,1990 Metals Abstracts ,1989

Mathematical Methods in Elasticity Imaging Habib Ammari,Elie Bretin,Josselin Garnier,Hyeonbae Kang,Hyundae

Lee, Abdul Wahab, 2015-04-05 This book is the first to comprehensively explore elasticity imaging and examines recent important developments in asymptotic imaging modeling and analysis of deterministic and stochastic elastic wave propagation phenomena. It derives the best possible functional images for small inclusions and cracks within the context of stability and resolution and introduces a topological derivative based imaging framework for detecting elastic inclusions in the time harmonic regime. For imaging extended elastic inclusions, accurate optimal control methodologies are designed and the effects of uncertainties of the geometric or physical parameters on stability and resolution properties are evaluated. In particular, the book shows how localized damage to a mechanical structure affects its dynamic characteristics and how measured eigenparameters are linked to elastic inclusion or crack location, orientation, and size. Demonstrating a novel method for identifying, locating, and estimating inclusions and cracks in elastic structures, the book opens possibilities for a mathematical and numerical framework for elasticity imaging of nanoparticles and cellular structures. 1974 *Ultrasonics Symposium Proceedings*. John De Klerk, 1974. *Soviet Physics, JETP*, 1982. *American Book Publishing Record*. R.R. Bowker Company, 1978. **Engineering Index Annual**, 1948. *Subject Catalog*, 1975. Library of Congress, 1975. *National Union Catalog*, 1982. Includes entries for maps and atlases. **Izvestiya Akademii nauk SSSR**, 1984. **American Book Publishing Record Cumulative, 1950-1977**. R.R. Bowker Company. Department of Bibliography, 1978. *Management Handbook*. Paul Mali, 1981-03-30. Comprehensively covers the major fields found in the practice of management. Experts from major corporations and institutions provide definitions, information, strategies, techniques, experiences, and skills for making a decision, learning a new field, solving a problem, setting up a procedure, designing a process, or resolving a conflict. Features fingertip referencing for quick access, charts, forms, checklists, job descriptions, and over 100 diagrams and illustrations. *Environment Information Access*, 1972. **Booklist**. Oregon State College. Library, Oregon State University. Library, 1960. *The Journal of the Acoustical Society of America*. Acoustical Society of America, **The Publishers Weekly**, 1968-05.

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