

## Unit 3 Worksheet 3 – Quantitative Energy Problems

### Energy constants (H<sub>2</sub>O)

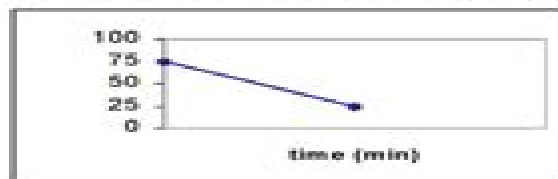
|            |                                                                 |
|------------|-----------------------------------------------------------------|
| 334 J/g    | Heat of fusion (melting or freezing) H <sub>f</sub>             |
| 2260 J/g   | Heat of vaporization (evaporating or condensing) H <sub>v</sub> |
| 2.1 J/g°C  | Heat capacity (c) of solid water                                |
| 4.18 J/g°C | Heat capacity (c) of liquid water                               |

$$Q = m \cdot c \cdot \Delta T$$

$$Q = m \cdot H_v \text{ or } m \cdot H_f$$

For each of the problems sketch a warming or cooling curve to help you decide which equation(s) to use to solve the problem. Keep a reasonable number of sig figs in your answers.

1. A cup of coffee (140 g) cools from 75°C down to comfortable room temperature 20.°C. How much energy does it release to the surroundings?



$$Q = 140g \cdot 4.18 \frac{J}{g^{\circ}C} \cdot 55^{\circ}C = 32,000 J \text{ or } 32 kJ$$

2. Suppose during volleyball practice, you lost 2.0 lbs of water due to sweating. If all of this water evaporated, how much energy did the water absorb from your body? Express your answer in kJ. 2.2 lbs = 1.0 kg



$$2.0 lbs \cdot \frac{1kg}{2.2 lbs} \cdot \frac{1000g}{1kg} = 910g$$

$$Q = 910g \cdot 2260 \frac{J}{g} = 2,100,000 J \text{ or } 2100 kJ$$

3. Suppose that during the Icy Hot lab that 65 kJ of energy were transferred to 450 g of water at 20°C. What would have been the final temperature of the water?



$$Q = m \cdot c \cdot \Delta T(^{\circ}C)$$

$$\Delta T = \frac{Q}{m \cdot c} = \frac{65,000 J}{450g \cdot 4.18 \frac{J}{g^{\circ}C}} = 34.6^{\circ}C = 35^{\circ}C$$

# Answer For Quantitative Energy Problems

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Quantitative Energy Finance Fred Espen Benth, Valery A. Kholodnyi, Peter Laurence, 2013-08-28 Finance and energy markets have been an active scientific field for some time even though the development and applications of sophisticated quantitative methods in these areas are relatively new and referred to in a broader context as energy finance Energy finance is often viewed as a branch of mathematical finance yet this area continues to provide a rich source of issues that are fuelling new and exciting research developments Based on a special thematic year at the Wolfgang Pauli Institute WPI in Vienna Austria this edited collection features cutting edge research from leading scientists in the fields of energy and commodity finance Topics discussed include modeling and analysis of energy and commodity markets derivatives hedging and pricing and optimal investment strategies and modeling of emerging markets such as power and emissions The book also confronts the challenges one faces in energy markets from a quantitative point of view as well as the recent advances in solving these problems using advanced mathematical statistical and numerical methods By addressing the emerging area of quantitative energy finance this volume will serve as a valuable resource for graduate level students and researchers studying financial mathematics risk management or energy finance

The Energy Crisis and Proposed Solutions United States. Congress. House. Committee on Ways and Means, 1975

Energy Abstracts for Policy Analysis, 1986

**The Crisis**, 1980-03 The Crisis founded by W E B Du Bois as the official publication of the NAACP is a journal of civil rights history politics and culture and seeks to educate and challenge its readers about issues that continue to plague African Americans and other communities of color For nearly 100 years The Crisis has been the magazine of opinion and thought leaders decision makers peacemakers and justice seekers It has chronicled informed educated entertained and in many instances set the economic political and social agenda for our nation and its multi ethnic citizens

**Department of the Interior and Related Agencies Appropriations for 1988: Secretary of Energy** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 1987

**Nuclear Power and Related Energy Problems--1968 Through 1970** United States. Congress. Joint Committee on Atomic Energy, 1971

*Engineering Thermodynamics and 21st Century Energy Problems* Donna Riley, 2022-05-31 Energy is a basic human need technologies for energy conversion and use are fundamental to human survival As energy technology evolves to meet demands for development and ecological sustainability in the 21st century engineers need to have up to date skills and knowledge to meet the creative challenges posed by current and future energy problems Further engineers need to cultivate a commitment to and passion for lifelong learning which will enable us to actively engage new developments in the field This undergraduate textbook companion seeks to develop these capacities in tomorrow s engineers in order to provide for future energy needs around the world This book is designed to complement traditional texts in engineering thermodynamics and thus is organized to accompany explorations of the First and Second Laws fundamental property relations and various applications across

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