

Name _____ Date _____ Class _____

17

THERMOCHEMISTRY

SECTION 17.1 THE FLOW OF ENERGY—HEAT AND WORK (pages 505–510)

This section explains the relationship between energy and heat, and distinguishes between heat capacity and specific heat.

► Energy Transformations (page 505)

1. What area of study in chemistry is concerned with the heat transfers that occur during chemical reactions? thermochemistry
2. Where the use of energy is concerned (in a scientific sense), when is work done?
Work is done when a force is used to move an object.
3. Circle the letter next to each sentence that is true about energy:
☒ a. Energy is the capacity for doing work or supplying heat.
☒ b. Energy is detected only because of its effects.
c. Heat is energy that transfers from one object to another because they are at the same temperature.
☒ d. Gasoline contains a significant amount of chemical potential energy.
4. Circle the letter next to each sentence that is true about heat.
☒ a. One effect of adding heat to a substance is an increase in the temperature of that substance.
b. Heat always flows from a cooler object to a warmer object.
☒ c. If two objects remain in contact, heat will flow from the warmer object to the cooler object until the temperature of both objects is the same.

► Exothermic and Endothermic Processes (pages 506–507)

5. What can be considered the “system” and what are the “surroundings” when studying a mixture of chemicals undergoing a reaction? Write your answers where indicated below.

System: The mixture of chemicals itself is considered the system.

Surroundings: Everything but the mixture of chemicals is the surroundings, but practically speaking, the immediate vicinity of the system.

Section 17 The Flow Of Energy Heat And Work Answer Key

William Holderbaum



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Student Solutions Manual for Physical Chemistry C. A. Trapp, Peter Atkins, Julio dePaula, 2009-12-18 With its modern emphasis on the molecular view of physical chemistry its wealth of contemporary applications vivid full color presentation and dynamic new media tools the thoroughly revised new edition is again the most modern most effective full length textbook available for the physical chemistry classroom Available in Split Volumes For maximum flexibility in your physical chemistry course this text is now offered as a traditional text or in two volumes Volume 1 Thermodynamics and Kinetics ISBN 1 4292 3127 0 Volume 2 Quantum Chemistry Spectroscopy and Statistical Thermodynamics ISBN 1 4292 3126 2 **Applied**

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Deshpande, Mandar Tabib, Mahesh Dhotre, 2023-11-13 Energy demands throughout the globe has been increasing and the detrimental effects of carbon emissions on the environment by use of non renewable resources has impacted life on the planet The changing climate has caused an increase in natural calamities all over the globe Many countries in the world have started to produce power using renewable resources like solar biomass wind energy nuclear energy and green fuels Though there are several technologies for power generation using the above sources efficient design of these systems still needs lot of research Mathematical modeling would play a vital role in design of state of the art technologies Advanced nuclear power plants need special mention since they involve naturally driven safety systems where the complex phenomena of boiling condensation and thermal stratification take place These are difficult to model as there is more than one phase coupled with turbulence models near wall phenomena coalescence and break up etc Scaling up of such systems and their innovative design to reduce stratification requires the help of mathematical modeling Other opportunities include Computational Fluid

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that rolling blackouts are the most with which we will have to cope In today s culture even that is a minor disaster Electricity is the hinge upon which our lives swing Most of us can t even tell time without electricity or when it comes back on how do we reset the clocks In fact every floating automatic device in the house will need resetting We depend upon electricity for all the niceties of living What about the necessities Food Preservation and Spoilage Heat Light both to see and for security Water No hot water without electricity City and Rural water is supplied by electric pumps Enjoy air conditioning A hot tub Hot water These are things we can live without if we must although there are energy efficient ways to have these things Otherwise either the cost of having them or the need to use a minimum of electricity may make them unavailable Solar Energy will heat your home and provide hot water It will even heat a hot tub We use what is in this book ALL the time

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Sciubba, Giampaolo Manfrida, 2012 The 8 volume set contains the Proceedings of the 25th ECOS 2012 International Conference Perugia Italy June 26th to June 29th 2012 ECOS is an acronym for Efficiency Cost Optimization and Simulation of energy conversion systems and processes summarizing the topics covered in ECOS Thermodynamics Heat and Mass Transfer Exergy and Second Law Analysis Process Integration and Heat Exchanger Networks Fluid Dynamics and Power Plant Components Fuel Cells Simulation of Energy Conversion Systems Renewable Energies Thermo Economic Analysis and Optimisation Combustion Chemical Reactors Carbon Capture and Sequestration Building Urban Complex Energy Systems Water Desalination and Use of Water Resources Energy Systems Environmental and Sustainability Issues System Operation Control Diagnosis and Prognosis Industrial Ecology *Energy Abstracts for Policy Analysis* ,1987-07 **Journal of Thermophysics and Heat Transfer** ,2006 This journal is devoted to the advancement of the science and technology of thermophysics and heat transfer through the dissemination of original research papers disclosing new technical knowledge and exploratory developments and applications based on new knowledge It publishes papers that deal with the properties and mechanisms involved in thermal energy transfer and storage in gases liquids and solids or combinations thereof These studies include conductive convective and radiative modes alone or in combination and the effects of the environment

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