

THERMODYNAMICS

review

STUFF TO KNOW

specific heat capacity

enthalpy

entropy

hess's law

gibbs' free law

negative/positive

SPECIFIC HEAT CAPACITY:

$$C_p = q/m \cdot T$$

amount of energy required
to raise the temp of 1g of a
substance by 1 C degree/1K

ENTHALPY

enthalpy change - amount of
energy absorbed by a system
as heat during a process at a
constant pressure (H)

symbol = H

equation: $H =$
 $\Sigma H_{\text{products}} -$
 $\Sigma H_{\text{reactants}}$

ENDOTHERMIC:

(of a reaction or process)
accompanied by or requiring
the absorption of heat
(positive enthalpy)

EXOTHERMIC:

(of a reaction or process)
accompanied by the
release of heat
(negative enthalpy)

HESS' LAW

Used to calculate
enthalpy

symbol = H

equation: $H = H_{\text{products}}$
 $- H_{\text{reactants}}$

Nupoc Study Guide Solutions Thermodynamics

JR Anderson



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Thermodynamics Problem Solving in Physical Chemistry Kathleen E. Murphy, 2020-03-23 Thermodynamics Problem Solving in Physical Chemistry Study Guide and Map is an innovative and unique workbook that guides physical chemistry students through the decision making process to assess a problem situation create appropriate solutions and gain confidence through practice solving physical chemistry problems The workbook includes six major sections with 20 30 solved problems in each section that span from easy single objective questions to difficult multistep analysis problems Each section of the workbook contains key points that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area Key Features Provides instructor access to a visual map depicting how all equations used in thermodynamics are connected and how they are derived from the three major energy laws Acts as a guide in deriving the correct solution to a problem Illustrates the questions students should ask themselves about the critical features of the concepts to solve problems in physical chemistry Can be used as a stand alone product for review of Thermodynamics questions for major tests Thermodynamics Problem Solver The Editors of REA, Ralph Pike, 2013-01-01 REA s

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