

Name _____ Date _____ Period _____

KEY

Thermochem and Collision theory Study Guide

What is enthalpy? (define it and indicate its symbol)
heat content of a reaction or process. H

What is thermochemistry?
Study of heat (E) changes of a reaction

What is an exothermic reaction?

a reaction that gives off heat

Explain why an exothermic reaction have a negative enthalpy change?
b/c reactants lost heat to become products. (The overall ΔH is negative)

What is an endothermic reaction?

a reaction that absorbs heat

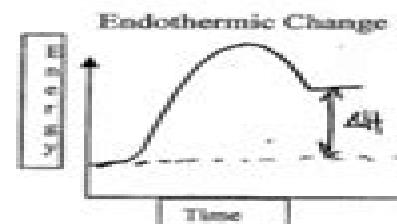
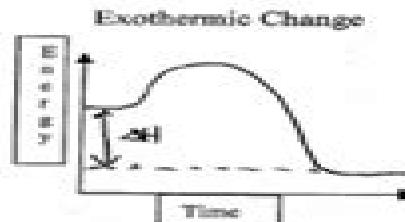
Explain why an endothermic reaction have a positive enthalpy change?

b/c reactants absorb heat to become products (the overall ΔH is +)

Complete the following chart:

Type of Reaction	Sign of ΔH_{rxn}	Which has more energy: reactants or products?	What temperature change would you see?
Exothermic	-	Reactants	Temp would ↑
Endothermic	+	Products	Temp. would ↓

Make enthalpy diagrams for the two chemical reactions from above, showing clearly the amount of energy released or gained.



Does the energy go from the surrounding to the chemicals or from the chemicals to the surroundings in an exothermic reaction?
from chemicals to surroundings

Does the energy go from the surrounding to the chemicals or from the chemicals to the surroundings in an endothermic reaction?
from surroundings to chemicals

Classify each of the following as an exothermic or endothermic process.

Melting ice cubes endothermic

Baking Bread endothermic

Burning a candle exothermic

Splitting a gas molecule apart endothermic (breaking bond!)

Evaporation of water endothermic

Formation of snow in clouds exothermic

What type of reactions are the following based on the enthalpy?



endothermic



exothermic



endothermic



exothermic



exothermic

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Thermodynamics Stephen R. Turns, Laura L. Pauley, 2020-02-27 Fully revised to match the more traditional sequence of course materials this full color second edition presents the basic principles and methods of thermodynamics using a clear and engaging style and a wealth of end of chapter problems It includes five new chapters on topics such as mixtures psychometry chemical equilibrium and combustion and discussion of the Second Law of Thermodynamics has been expanded and divided into two chapters allowing instructors to introduce the topic using either

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Research in Interactive Design (Vol. 3) Jean-Pierre Nadeau, Xavier Fischer, 2011-04-23 This book provides an accurate overview of the recent research or industrial application in interactive design The different arguments taken from the international conference Virtual Concept 2005 will provide the reader with some advanced solutions concerning new methods and tools by discussing modelling techniques design solution space exploration and interactive process organization

The Future of Heritage Science and Technologies Rocco Furferi, Kate Seymour, Anna Pelagotti, 2025-05-03 This book features selected contributions from Florence Heri Tech 2024 showcasing cutting edge technologies for the analysis conservation and restoration of cultural heritage It explores advancements in materials science including nanotechnology and plasma based restoration as well as innovative diagnostic methods The book provides insights into biotechnology tailored materials and novel physical techniques offering a comprehensive overview of emerging trends in heritage preservation

Modeling the Material Behavior under Metal Cutting Conditions Marvin Hardt, 2022-03-16 The scientific goal of the present work was to model the workpiece material behavior of steels in the metal cutting process depending on the occurring thermo mechanical loads The results of this work shall make a significant contribution to the predictive process design of the cutting process by means of Finite Element FE simulations for the virtual representation of the reality in the sense of the digital twin To achieve the objective extensive empirical examinations were conducted in a first step which included conventional material scientific and orthogonal cutting tests This enabled the establishment of a database of the workpiece response with increasing thermo mechanical loads During the orthogonal cutting examinations integral and locally resolved process results were measured which were used as calibration and validation variables in the modeling of the workpiece material behavior By extending an established friction test bench with a workpiece pre heating system the friction conditions between tool and workpiece could be investigated under conditions equivalent to the cutting process Based on the experimental results a friction model was derived in which the observed effects of thermal softening and the localized adhesion induced increase in the apparent friction coefficient were superposed A phenomenological material model was developed to describe the workpiece material behavior in the cutting process The formulation of the material model was developed based on empirical examinations as well as results from the state of the art The material model was implemented in an FE chip formation simulation using a subroutine A hybrid optimization algorithm was developed to inversely determine the material model parameters By means of the optimization algorithm the material model parameters could be

systematically determined inversely taking the experimentally determined process observables into account An automated procedure linked to a user interface lowered the entry hurdle for industrial companies and unexperienced users of FE simulations and reduced the computational effort for the inverse parameter determination to about 10 days of computational execution time The quality of the developed models and the determined model parameters were further verified by a final deduction step using the industrial example of face turning

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Materials

and Technologies in Construction with Reference to Energy Efficiency and Sustainable Development Mohammad

Arif Kamal,2016-02-12 Special topic volume with invited peer reviewed papers only

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Chong Rae Park,2019-03-15 Your guide to advanced thermoelectric materials Written by a distinguished group of contributors this book provides comprehensive coverage of the most up to date information on all aspects of advanced thermoelectric materials ranging from system biology diagnostics imaging image guided therapy therapeutics biosensors and translational medicine and personalized medicine as well as the much broader task of covering most topics of biomedical research

Light Metals 2011 Stephen J. Lindsay,2011-04-12 The light metal symposia are a key part of the TMS Annual

Meeting Exhibition presenting the most recent developments discoveries and practices in primary aluminum science and technology Publishing the proceedings from these important symposia the Light Metals Series has become the definitive reference in the field of aluminum production and related light metal technologies Light Metals 2011 offers a mix of the latest scientific research findings and applied technology covering alumina and bauxite aluminum reduction technology aluminum rolling cast shop for aluminum production electrode technology and furnace efficiency These proceedings will help you take advantage of the latest technologies in order to produce high quality materials while cutting costs and improving profitability at the same time

Chemistry, Student Study Guide John A. Olmsted,Gregory M. Williams,2002-01-04 This

third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor s resource CD and a solution CD

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1977

Environmental Science Michael L. McKinney,Robert M.

Schoch,Logan Yonavjak,2007 The Critical Importance Of Environmental Preservation Is Apparent To Everyone The Issues Facing Us Today Be They Global Warming The Depleting Ozone Layer The Controversy Over Nuclear Power Or The

Continuing Problems Of Water Pollution And Solid Waste Disposal Are Headline News Environmental Science Systems And Solutions Fourth Edition Offers The Basic Principles Necessary To Understand And Address These Multi Faceted And Often Very Complex Current Environmental Concerns The Book Provides A Comprehensive Overview And Synthesis Of Environmental Science And Provides The Basic Factual Data Necessary To Understand The Environment As It Is Today It Is Important That Students Understand How Various Aspects Of The Natural Environment Interconnect With Each Other And With Human Society Using A Systems Approach The Authors Have Organized Complex Information In A Way That Highlights These Connections In A Fair And Unbiased Fashion A Study Guide Is Incorporated At The End Of Each Chapter To Help Reinforce Concepts And Provide A Clear Overview Of Material **Future Communication, Information and Computer Science** Dawei Zheng,2015-02-05 The 2014 International Conference on Future Communication Information and Computer Science FCICS 2014 was held May 22 23 2014 in Beijing China The objective of FCICS 2014 was to provide a platform for researchers engineers and academics as well as industrial professionals from all over the world to present their research results and development activities in Computer Network and Information Technology and Communication Engineering

Journal of Research of the National Bureau of Standards ,1980

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