

## Unit 6 – Thermodynamics (7-9%)

Changes in a substance's properties or change into a different substance requires an exchange of energy.

**6.1 Endothermic and Exothermic Processes:** Explain the relationship between experimental observations and energy changes associated with a chemical or physical transformation.

- Temperature changes in a system indicate energy changes.
- Energy changes in a system can be described as endothermic and exothermic processes such as the heating or cooling of a substance, phase changes, or chemical transformations.
- When a chemical reaction occurs, the energy of the system either decreases (exothermic reaction), increases (endothermic reaction), or remains the same. For exothermic reactions, the energy lost by the reacting species (system) is gained by the surroundings, as heat transfer from or work done by the system. Likewise, for endothermic reactions, the system gains energy from the surroundings by heat transfer to or work done on the system.
- The formation of a solution may be an exothermic or endothermic process, depending on the relative strengths of intermolecular/interparticle interactions before and after the dissolution process.

**6.2 Energy Diagrams:** Represent a chemical or physical transformation with an energy diagram.

- A chemical or physical process is described with an energy diagram that shows the endothermic or exothermic nature of the process.

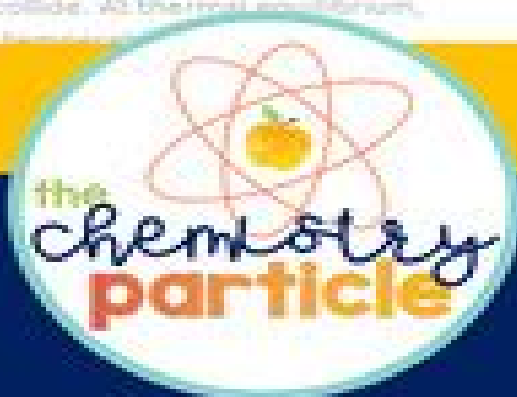
# Unit 6 Objectives

**Thermodynamics** is the study of the relationship between heat, work, and energy. It is a branch of physics that deals with the transfer of energy between different forms and the conversion of energy from one form to another.

- Particles in a warmer body have a greater average kinetic energy than those in a cooler body.
- Collisions between particles in a warmer body are more frequent and energetic than those in a cooler body. This process is called thermal conduction.
- Eventually, thermal equilibrium is reached as the particles continue to collide. At thermal equilibrium, the average kinetic energy of both bodies is the same and there is no net transfer of energy.

AP Chemistry

REFERENCE



# Modeling Chemistry Unit 6 Objectives

**Annelies Wilder-Smith**



## **Modeling Chemistry Unit 6 Objectives:**

Applied Chemistry and Chemical Engineering, Volume 4 A. K. Haghi, Lionello Pogliani, Eduardo A. Castro, Devrim Balköse, Omari V. Mukbaniani, Chin Hua Chia, 2017-12-22 Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections Polymer Chemistry and Technology Computational Approaches Clinical Chemistry and Bioinformatics Special Topics This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science technology engineering and mathematics *Engineering Technology and Industrial Chemistry with Applications* Reza K. Haghi, Francisco Torrens, 2018-09-24 This volume Engineering Technology and Industrial Chemistry with Applications brings together innovative research new concepts and novel developments in the application of new tools for chemical and materials engineers It provides a collection of innovative chapters on new scientific and industrial research from chemists and chemical engineers at several prestigious institutions It looks at recent significant research and reports on new methodologies and important applications in the fields of chemical engineering as well as provides coverage of chemical databases bringing together theory and practical applications Highlighting theoretical foundations real world cases and future directions this authoritative reference source will be a valuable addition for researchers practitioners professionals and students of chemistry material and chemical engineering Materials Physics and Chemistry Satya Bir Singh, Alexander V. Vakhrushev, A. K. Haghi, 2020-11-02 This volume focuses on the development and application of fundamental concepts in mechanics and physics of solids as they pertain to the solution of challenging new problems in diverse areas such as materials science and micro and nanotechnology In this volume emphasis is placed on the development of fundamental concepts of mechanics and novel applications of these concepts based on theoretical experimental or computational approaches drawing upon the various branches of engineering science and the allied areas within applied mathematics materials science and applied physics Materials Physics and Chemistry Applied Mathematics and Chemo Mechanical Analysis emphasizes the basics such as design equilibrium material behavior and geometry of deformation in simple structures or machines Readers will find a thorough treatment of stress strain and the stress strain relationships Meanwhile it provides a solid foundation upon which readers can begin work in composite materials science and engineering Many chapters include theory components with the equations students need to calculate different properties **Theoretical Models and**

**Experimental Approaches in Physical Chemistry** A. K. Haghi, Sabu Thomas, Praveen K.M., Avinash R. Pai, 2018-10-01 This new volume presents an up to date review of modern materials and physical chemistry concepts issues and recent advances in the field It presents a modern theoretical and experimental approach in applied physical chemistry The volume discusses the developments of advanced chemical products and respective tools to characterize and predict the chemical material properties and behavior With chapters from distinguished scientists and engineers from key institutions worldwide the volume provides understanding through numerous examples and practical applications drawn from research and development chemistry It emphasizes the intersection of chemistry math physics and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas At the same time each topic is framed within the context of a broader more interdisciplinary approach demonstrating its relationship and interconnectedness to other areas This new book fills a gap within modeling texts focusing on applications across a broad range of disciplines and presents information on many important problems in physical chemistry These investigations are accompanied by real life applications in practice

**Multi-Objective Optimization in Chemical Engineering** Gade Pandu Rangaiah, Adrian Bonilla-Petriciolet, 2013-03-20 For reasons both financial and environmental there is a perpetual need to optimize the design and operating conditions of industrial process systems in order to improve their performance energy efficiency profitability safety and reliability However with most chemical engineering application problems having many variables with complex inter relationships meeting these optimization objectives can be challenging This is where Multi Objective Optimization MOO is useful to find the optimal trade offs among two or more conflicting objectives This book provides an overview of the recent developments and applications of MOO for modeling design and operation of chemical petrochemical pharmaceutical energy and related processes It then covers important theoretical and computational developments as well as specific applications such as metabolic reaction networks chromatographic systems CO<sub>2</sub> emissions targeting for petroleum refining units ecodesign of chemical processes ethanol purification and cumene process design Multi Objective Optimization in Chemical Engineering Developments and Applications is an invaluable resource for researchers and graduate students in chemical engineering as well as industrial practitioners and engineers involved in process design modeling and optimization

**Physical Chemistry for Chemists and Chemical Engineers** Alexander V. Vakhrushev, Reza Haghi, J.V. de Julián-Ortiz, 2018-09-03 This volume is based on different aspects of chemical technology that are associated with research and the development of theories for chemical engineers helping to bridge the gap between classical analysis and modern real life applications Taking an interdisciplinary approach the authors present the current state of the art technology in key materials with an emphasis on the rapidly growing technologies

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reference source on the key concepts for modern technologies and optimization of new processes in physical chemistry This volume combines up to date research findings and relevant theoretical frameworks on applied chemistry materials and chemical engineering This new volume presents an up to date review of modern materials and chemistry concepts issues and recent advances in the field Distinguished scientists and engineers from key institutions worldwide have contributed chapters that provide a deep analysis of their particular subjects At the same time each topic is framed within the context of a broader more multidisciplinary approach demonstrating its relationship and interconnectedness to other areas The premise of this book therefore is to offer both a comprehensive understanding of applied science and engineering as a whole and a thorough knowledge of individual subjects This approach appropriately conveys the basic fundamentals state of the art technology and applications of the involved disciplines and further encourages scientific collaboration among researchers This volume emphasizes the intersection of chemistry math physics and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas including the life chemistry environmental sciences geosciences and materials sciences The applications from these multidisciplinary fields illustrate methods that can be used to model physical processes design new products and find solutions to challenging problems Planet Earth and the New Geoscience Victor Schmidt, William Harbert, 2003-08

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discussions from the 28th European Society of Computer Aided Process Engineering ESCAPE event      *Applied Chemistry and Chemical Engineering, Volume 2* A. K. Haghi, Lionello Pogliani, Devrim Balkose, Omari V. Mukbaniani, Andrew G. Mercader, 2017-12-22 This book covers many important aspects of applied chemistry and chemical engineering focusing on three main aspects principles methodology and evaluation methods It presents a selection of chapters on recent developments of theoretical mathematical and computational conceptions as well as chapters on modeling and simulation of specific research themes covering applied chemistry and chemical engineering This book attempts to bridge the gap between classical analysis and modern applications Covering a selection of topics within the field of applied chemistry and chemical engineering the book is divided into several parts polymer chemistry and technology bioorganic and biological chemistry nanoscale technology selected topics This book is the second of the two volume series Applied Chemistry and Chemical Engineering The first volume is Volume 1 Mathematical and Analytical Techniques      *Scientific and Technical Aerospace Reports*, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      Resources in Education, 1991      **Three Dimensional QSAR** Jean Pierre Doucet, Annick Panaye, 2010-12-17 As a result of new statistical and mathematical approaches improved visualization tools and recognition by international regulatory groups quantitative structure activity relationships QSARs now play important roles in pharmacology for the design of new drugs as well as in toxicology and ecotoxicology for hazard identification and risk assessment      **General Catalogue** Carnegie Institute of Technology, 1915      *Essential Numerical Computer Methods* Michael L. Johnson, 2010-11-25 The use of computers and computational methods has become ubiquitous in biological and biomedical research During the last 2 decades most basic algorithms have not changed but what has is the huge increase in computer speed and ease of use along with the corresponding orders of magnitude decrease in cost A general perception exists that the only applications of computers and computer methods in biological and biomedical research are either basic statistical analysis or the searching of DNA sequence data bases While these are important applications they only scratch the surface of the current and potential applications of computers and computer methods in biomedical research The various chapters within this volume include a wide variety of applications that extend far beyond this limited perception As part of the Reliable Lab Solutions series *Essential Numerical Computer Methods* brings together chapters from volumes 210 240 321 383 384 454 and 467 of *Methods in Enzymology* These chapters provide a general progression from basic numerical methods to more specific biochemical and biomedical applications The various chapters within this volume include a wide variety of applications that extend far beyond this limited perception As part of the Reliable Lab Solutions series *Essential Numerical Computer Methods* brings together chapters from volumes 210 240 321 383 384 454 and 467 of *Methods in Enzymology* These chapters provide a general progression from basic numerical methods to more specific biochemical and biomedical applications      **Energy**

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