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9/27/2020 10:04:00 AM

## **Engineering Chemistry Notes Chemical Thermodynamics**

It introduces the concept of 'entropy' or 'disorder' or 'randomness' to predict the spontaneous occurrence of chemical reactions. The third law of thermodynamics relates, among other things, to the experimental approach to absolute zero. Thermodynamics is a powerful tool for chemists.

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Chemical Thermodynamics. Chemical reactions, such as those that occur when you light a match, involve changes in energy as well as matter. Societies at all levels of development could not function without the energy released by chemical reactions. Almost 85% of energy consumption comes from the combustion of petroleum products, coal, wood, and garbage..We use this energy to produce electricity; to transport food, raw materials, manufactured goods; for industrial production; and to heat and ...

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## **Chemical Engineering Thermodynamics Course Notes ...**

A system which can exchange both energy and matter with its surroundings. A system which permits passage of energy but not mass, across its boundary. A system which can neither exchange energy nor matter with its surrounding. Part of the universe other than system, which can interact with it.

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physical properties of matter is Thermodynamics. The four laws of Thermodynamics govern the behaviour of these quantities.

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Thermodynamics is the study of the energy, principally heat energy, that accompanies chemical or physical changes. Some chemical reactions release heat energy; they are called exothermic reactions, and they have a negative enthalpy change. Others absorb heat energy and are called endothermic reactions, and they have a positive enthalpy change.

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Thermodynamic relationships determine the equilibrium composition of product mixtures resulting from chemical reaction. The nature of the product species, their proportions, their temperature, and their pressure depend upon three major controlling factors.

### **Thermodynamics - Engineering Notes India**

THERMODYNAMICS It is the branch of chemistry which deals with the energy changes taking place during physical and chemical changes.

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Chemical Thermodynamics 1. 1 6-th lesson  
Thermodynamics 2. 2 Thermochemistry study the energy effect of chemical reaction  
Chemical reaction energy changes are utilized to :  
Calculate the heat balance of industrial processes;  
Determine the energy of bonds;  
Establish the direction of processes.

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