

## *Solutions Chemical Thermodynamics*

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electrical, chemical, or radiant. • He is considered to be the founder of chemical thermodynamics. • He is an American theoretical physicist, chemist, and mathematician. He devised much of the theoretical foundation for chemical thermodynamics as well as physical chemistry. Jan-2012 M Subramanian [www.msubbu.in](http://www.msubbu.in)

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### **THERMODYNAMICS OF SOLUTIONS - ¡Bienvenidos!**

3 CHEMICAL THERMODYNAMICS. 3.1 Definitions: (From Smith, 1982, and Anderson and Crerar, 1994) 1. Thermodynamics: Energy differences and transfers between systems. 2. Systems: • Isolated system: "have walls or boundaries that are rigid, do not permit transfer of mechanical energy, perfectly insulating, and impermeable.

### **3 CHEMICAL THERMODYNAMICS**

Chemical Thermodynamics. Enthalpy. • A thermodynamic quantity that equal to the internal energy of a system plus the product of its volume and pressure exerted on it by its surroundings; "Enthalpy is the amount of energy in a system capable of doing mechanical work" Using the symbol H for the enthalpy:  $H = E + p V$ .

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### **Chemical Engineering Thermodynamics**

equilibrium is usually small, because the chemical potential of a component in a liquid-phase or solid-phase solution is usually a weak function of pressure. 25/76 Effect of temperature The temperature effect on the Gibbs energy is contained in the  $\ln K T$  term. This term often gives rise to a large effect of temperature on equilibrium.

### **Review of Chemical Equilibrium & Introduction**

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