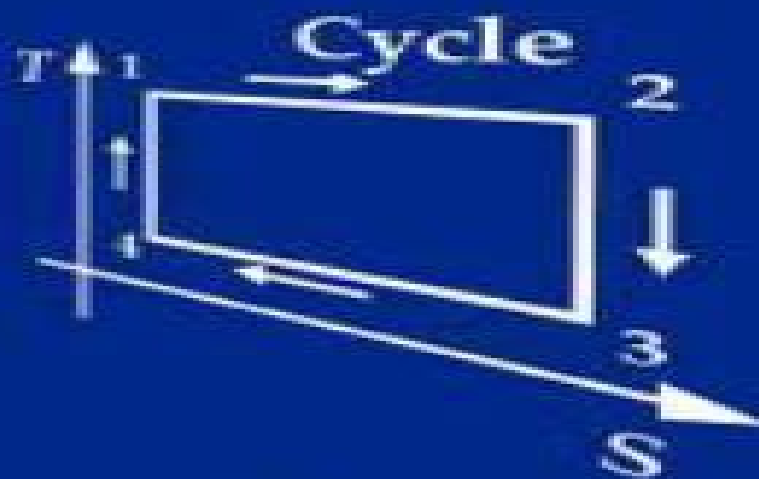
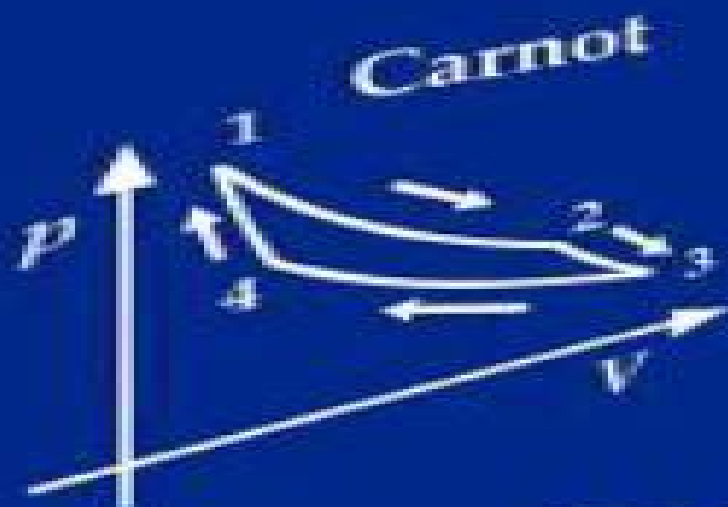


The Bases of Chemical Thermodynamics

*Michael Graetzel
and
Pierre Infelta*



Volume 1

The Bases Of Chemical Thermodynamics Pierre Infelta

Michael Graetzel, Pierre Infelta



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The Bases of Chemical Thermodynamics Michael Grätzel, Pierre Infelta, 2000 Fields of Chemistry Chemical Engineering Material Sciences The Bases of Chemical Thermodynamics: Volume 1 Michael Grätzel, Pierre Infelta, 2000-01-01 In this volume volume 1 the fundamental aspects of thermodynamics are presented The first second laws of thermodynamics are illustrated The need to define thermodynamic temperature the nature of entropy are explained The book explores the meaning of auxiliary thermodynamic functions the origin usefulness use of partial molar quantities Gaseous systems phase equilibrium in systems where chemical reactions do not take place are described In volume 2 the tools necessary to study understand systems in which chemical reactions can take place are developed The variables of reaction are the keys to understanding Criteria for chemical equilibrium are established It is shown how chemical reactions can provide work as for example in batteries For complex systems the number of independent reactions their nature have to be determined systematically The effect of external factors on chemical equilibria is analyzed illustrated The formalism necessary to study ideal real solutions is provided The various standard states in use the corresponding activity coefficients are clearly defined The statistical aspect of thermodynamics is best understood once students are familiar with the rest of the book for this reason is treated in the last chapter Both volumes comply with the latest IUPAC recommendations for symbols Most of the specific mathematical tools are presented either directly in the text if they are used mostly in one chapter while the others are included in an appendix A primarily phenomenological approach has been selected to keep chemical thermodynamics easily accessible to beginners Intermediate steps in the derivations have been kept to enhance the clarity of the presentation A large number of problems most of them original will with complete solutions are provided They give this textbook a great pedagogical value This book is primarily destined to students graduate students practicing scientists in the fields of Chemistry Chemical Engineering Material Sciences **The Bases of Chemical Thermodynamics** Michael Graetzel, Pierre Infelta, 2000-01-20 In this volume volume 2 the tools necessary to study and understand systems in which chemical reactions can take place are developed The variables of reaction are the keys to this understanding Criteria for chemical equilibrium are established It is shown how chemical reactions can provide work as for example in batteries For complex systems the number of independent reactions and their nature have to be determined systematically The effect of external factors on chemical equilibria is analyzed and illustrated The formalism necessary to study ideal and real solutions is provided The various standard states in use and the corresponding activity coefficients are clearly defined The statistical aspect of thermodynamics is best understood once students are familiar with the rest of the book and for this reason is treated in the last chapter In volume 1 the tools necessary to study and understand systems in which chemical reactions can take place are developed The variables of reaction are the keys to this understanding Criteria for chemical equilibrium are established It is shown how chemical reactions can provide work as for example in batteries For complex systems the number of independent

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