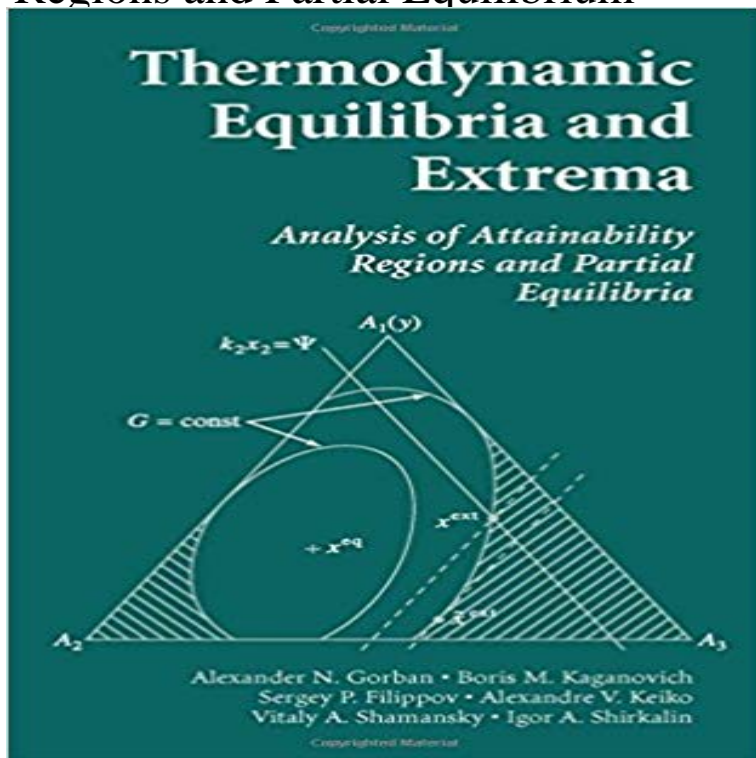


Thermodynamic Equilibria and Extrema: Analysis of Attainability Regions and Partial Equilibrium



The authors are very glad to see the publication of *Thermodynamic Equilibria and Extrema* in English and would like to express their gratitude to everybody who contributed to this end. The book is devoted to the analysis of attainability regions and partial equilibria in physicochemical and other systems. This analysis employs the extreme models of classical equilibrium thermodynamics. Consideration is given to the problem of choosing, from the set of equilibrium states belonging to the attainability regions, that equilibrium corresponding to the extreme values of a property of interest to a researcher. For example, one might desire to maximize the concentration of target products of a chemical reaction. The problem of coordinating thermodynamics and kinetics is very important in the analysis presented. At a glance, it may seem that the objects of study in thermodynamics (the science of equilibria) and kinetics (the science of motion toward equilibrium) coincide only in the case of complete and mutual equilibrium. In reality, joint application of thermodynamics and kinetic models gives a clearer understanding of the regularities of the kinetics involved. Relativity of the notions of rest and motion was already firmly established in mechanics when the principles of equilibrium were formulated by Galilei, D'Alembert, and Lagrange. Historically, the theories of motion and equilibrium states are related. It is precisely the study of gas kinetics that led Clausius and Boltzmann to the main principles of thermodynamics. The systematic analysis of these principles in the classic book by Gibbs, *On the Equilibrium of Heterogeneous Substances* [54], demonstrated the feasibility of substituting the models of rest for the models of motion when studying various physicochemical processes.

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