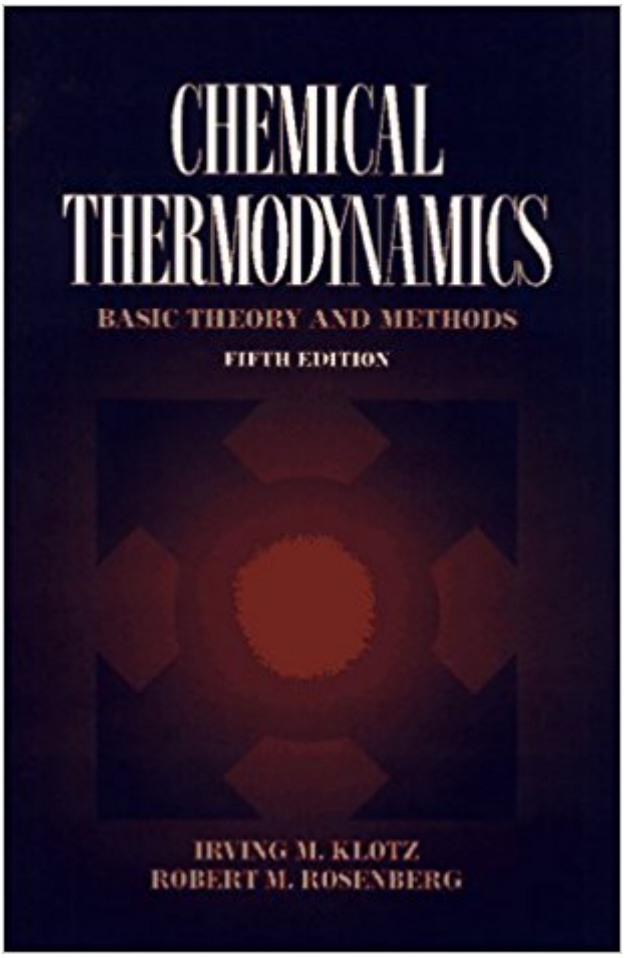
Chemical Thermodynamics: Basic Theory And Methods, 5th Edition



Synopsis

Uses the classical (phenomenological) approach to thermodynamics as opposed to the statistical. Applies theory to chemical, biological and geological problems. Provides complete coverage of essential mathematical tools and computational techniques. This edition contains new chapters on thermodynamics of the electrochemical cell, Eh/pH diagrams, a revised chapter on estimation of thermodynamic properties plus treatment of the latest work in electrolyte solutions. Additional problems reflect new applications.

Book Information

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Customer Reviews

This textbook presented the classical approach to thermodynamic theory of equilibrium and excluded the statistical viewpoint.I. M. Klotz and R. M. Rosenberg focussed their "Chemical thermodynamics" for the chemistry student, although some applications in geology and biology are also taught.The chapter of mathematical preparation is straightforward and perfectly complemented by the analytical and graphical mathematical techniques shown in chapter twenty-three.I hope that the reader agrees with me in that the Klotz and Rosenberg’s discussion of enthalpy and enthalpy of reaction is excellent.In the subsequent pages we find topics in ideal and real gases, Gibbs free energy, useful work, phase transitions, chemical potential, the second and third laws and non-electrolyte solutions.Finally, it should be emphasized that the treatment of electrolyte solutions has been updated.

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