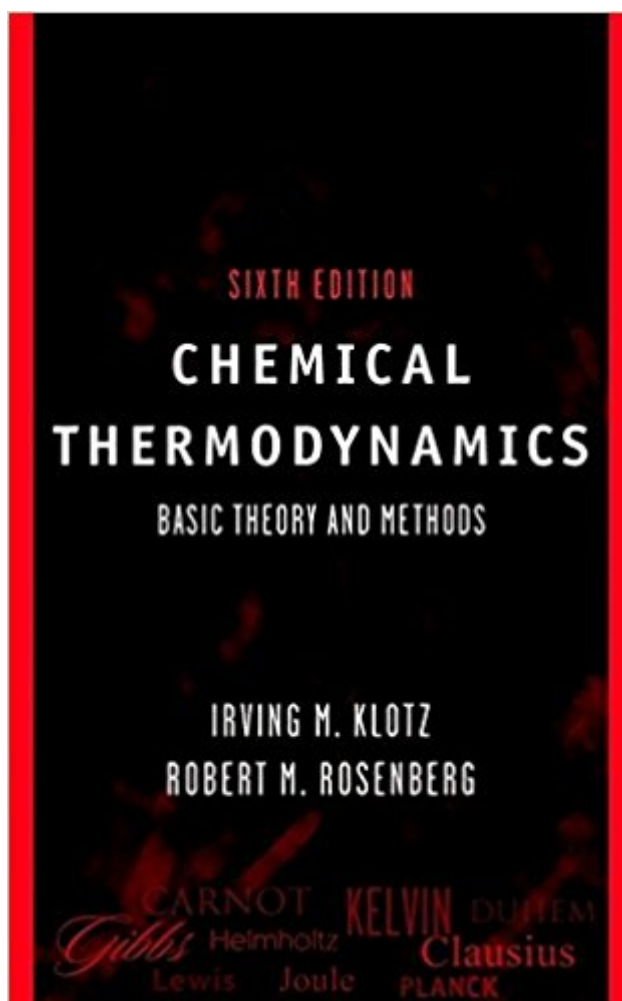


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Chemical Thermodynamics: Basic Theory And Methods, 6th Edition



Synopsis

A new, millennium edition of the classic treatment of chemical thermodynamics. Widely recognized for half a century for its first-rate, logical introduction to phenomenological thermodynamics, this classic work is now thoroughly revised for the new millennium. The Sixth Edition continues to cover the fundamentals and methods of thermodynamics with exceptional vigor and clarity, while incorporating many new developments. Up-to-date examples are carefully gleaned from the literature for their practical interest to chemists, biochemists, geologists, chemical engineers, and materials scientists. *Chemical Thermodynamics: Basic Theory and Methods*, Sixth Edition provides readers with clear explanations of essential chemistry, mathematics, and the latest computational tools. Additional new features include: * Liberal reference to Web-based resources and databases * Extensive tables of thermodynamic data organized by source * High-quality exercises with a separate student manual available for solutions to alternate problems * Simple methods for the calculation of partial molar functions from experimental data * Expanded and revised chapters containing discussion of excess thermodynamic functions, a treatment of the Second Law and Equilibrium on the basis of the Planck function as well as the Gibbs function, and treatment of real gases in terms of the Redlich-Kwong equation

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Customer Reviews

"This is a very good book, in terms of both conception and execution...best suited to a first graduate course or an advance undergraduate course in thermodynamics." (Journal of Chemical Education,

Vol. 78, No. 6, June 2001) "The emphasis is on training the student in the application of the theory of thermodynamics...The mathematical tools are considered in detail." (SciTech Book News, Vol. 24, No. 4, December 2000) "It is difficult to find another text that has the subject qualities of Professors Klotz's and Rosenberg's textbook. I am pleased to recommend this heartily this exceptionally clearly written, masterfully organised and exclusively produced millennium edition for graduate students as well as experts in the field of physical chemistry..." (Jnl of Thermal Analysis & Calorimetry, Vol 63, 2001)

A new, millennium edition of the classic treatment of chemical thermodynamics Widely recognized for half a century for its first-rate, logical introduction to phenomenological thermodynamics, this classic work is now thoroughly revised for the new millennium. The Sixth Edition continues to cover the fundamentals and methods of thermodynamics with exceptional vigor and clarity, while incorporating many new developments. Up-to-date examples are carefully gleaned from the literature for their practical interest to chemists, biochemists, geologists, chemical engineers, and materials scientists. Chemical Thermodynamics: Basic Theory and Methods, Sixth Edition provides readers with clear explanations of essential chemistry, mathematics, and the latest computational tools. Additional new features include: * Liberal reference to Web-based resources and databases * Extensive tables of thermodynamic data organized by source * High-quality exercises with a separate student manual available for solutions to alternate problems * Simple methods for the calculation of partial molar functions from experimental data * Expanded and revised chapters containing discussion of excess thermodynamic functions, a treatment of the Second Law and Equilibrium on the basis of the Planck function as well as the Gibbs function, and treatment of real gases in terms of the Redlich-Kwong equation

I started to read this book in order to figure out how to calculate the heat released by various chemical reactions. I ended up spending a week reading the first 10 chapters (roughly half the book) and working through the majority of the exercises simply because the book was such a pleasure to read. I feel that the material is presented in a logical fashion, the physical meaning of various mathematical functions is well explained, the exercises are set at the correct pitch and lead to a deeper understanding of the theory, and sufficient references are given so that the reader knows where to go to obtain further material (thermochemical data in my case). About a decade ago I completed a postgraduate maths/physics degree so I suppose that may give me an "edge" over some readers. However, the book begins with an introduction to calculus involving many variables

which is really the only maths used in the entire book. The book is certainly simple - you won't find much mention of statistical mechanics, for example - but I believe it provides an excellent introduction to the subject of chemical thermodynamics. There is a companion to this book containing answers to many of the exercises.

I used this book for a graduate thermodynamics class. It is written in math so if you have a hard time reading math then you're in trouble. I suggest taking a lot of notes in class because this book is not going to help much unless you already have a pretty good idea of what to do. At least it's small

An insightful book. Easy to read when compared to other books of similar subject. Flows through topics smoothly.

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