



Chemical Thermodynamics and Information Theory with Applications

Daniel J. Graham

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Thermodynamics and information touch every facet of chemistry. However, the physical chemistry curriculum digested by students worldwide is still heavily skewed toward heat/work principles established more than a century ago. Rectifying this situation, **Chemical Thermodynamics and Information Theory with Applications** explores applications drawn from the intersection of thermodynamics and information theory—two mature and far-reaching fields.

In an approach that intertwines information science and chemistry, this book covers:

- The informational aspects of thermodynamic state equations
- The algorithmic aspects of transformations—compression, expansion, cyclic, and more
- The principles of best-practice programming
- How molecules transmit and modify information via collisions and chemical reactions

Using examples from physical and organic chemistry, this book demonstrates how the disciplines of thermodynamics and information theory are intertwined. Accessible to curiosity-driven chemists with knowledge of basic calculus, probability, and statistics, the book provides a fresh perspective on time-honored subjects such as state transformations, heat and work exchanges, and chemical reactions.



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