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By James P. Wolfe

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Assuming familiarity with first-year chemistry and mechanics courses, this workbook-style text introduces the concepts of **entropy** and **free energy** to understand such diverse problems as: **engine efficiency; paramagnetism; chemical equilibrium and phase transitions; elasticity in polymers and protein folding; molecular binding to surfaces and biomolecules; thermal radiation and global warming; and electronic properties of semiconductors.**

Knowledge of basic calculus (simple derivatives and integrals) is assumed, and numerous problems are provided with solutions. In addition to its 14 Chapters, the 5th Edition includes 10 Appendices, providing additional support for upper-division courses that rely on thermodynamics and statistical mechanics.

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