

### V.1 Physical Chemistry for the Life Sciences Chapters 1-11 - Custom for the University of Washington - Chem 452

By Thomas Engel, Gary Drobny, Philip Reid



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- 1) Fundamental Concepts of Thermodynamics, 2) Heat, Work, Internal Energy, Enthalpy, and the First Law of Thermodynamics, 3) The Importance of State Functions: Internal Energy and Enthalpy, 4) Thermochemistry, 5) Entropy and the Second and Third Laws of Thermodynamics, 6) The Gibbs Energy and Chemical Equilibrium, 7) Ideal and Real Solutions, 8) Phase Equilibria, 9) Electrolyte Solutions, Electrochemical Cells, and Redox Reactions, 10) Principles of Biochemical Thermodynamics, 11) Biochemical Equilibria



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