



Physical Chemistry for the Biological Sciences

By Hammes, Gordon G.

Wiley-Interscience, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: PREFACE.THERMODYNAMICS.1. Heat, Work, and Energy.1.1 Introduction.1.2 Temperature.1.3 Heat.1.4 Work.1.5 Definition of Energy.1.6 Enthalpy.1.7 Standard States.1.8 Calorimetry.1.9 Reaction Enthalpies.1.10 Temperature Dependence of the Reaction Enthalpy.References.Problems.2. Entropy and Free Energy.2.1 Introduction.2.2 Statement of the Second Law.2.3 Calculation of the Entropy.2.4 Third Law of Thermodynamics.2.5 Molecular Interpretation of Entropy.2.6 Free Energy.2.7 Chemical Equilibria.2.8 Pressure and Temperature Dependence of the Free Energy. 2.9 Phase Changes.2.10 Additions to the Free Energy. Problems.3. Applications of Thermodynamics to Biological Systems.3.1 Biochemical Reactions.3.2 Metabolic Cycles.3.3 Direct Synthesis of ATP.3.4 Establishment of Membrane Ion Gradients by Chemical Reactions.3.5 Protein Structure.3.6 Protein Folding.3.7 Nucleic Acid Structures.3.8 DNA Melting.3.9 RNA.References.Problems.CHEMICAL KINETICS.4. Principles of Chemical Kinetics.4.1 Introduction.4.2 Reaction Rates.4.3 Determination of Rate Laws.4.4 Radioactive Decay.4.5 Reaction Mechanisms.4.6 Temperature Dependence of Rate Constants.4.7 Relationship between Thermodynamics and Kinetics.4.8 Reaction Rates Near Equilibrium.References.Problems.5. Applications of Kinetics to Biological Systems.5.1 Introduction.5.2 Enzyme Catalysis: The Michaelis-Menten Mechanism.5.3 a-Chymotrypsin.5.4 Protein Tyrosine Phosphatase, 5.5 Ribozymes, 5.6 DNA Melting and

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