



## Chemistry, Hybrid Edition (with OWLv2 24-Months Printed Access Card)

By Zumdahl, Steven S.; Zumdahl, Susan A.

Cengage Learning, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!  
Summary: 1. Chemical Foundations.2. Atoms, Molecules, and Ions.3. Stoichiometry.4. Types of Chemical Reactions and Solution Stoichiometry.5. Gases.6. Thermochemistry.7. Atomic Structure and Periodicity.8. Bonding: General Concepts.9. Covalent Bonding: Orbitals.10. Liquids and Solids.11. Properties of Solutions.12. Chemical Kinetics.13. Chemical Equilibrium.14. Acids and Bases.15. Acid-Base Equilibria.16. Solubility and Complex Ion Equilibria.17. Spontaneity, Entropy, and Free Energy.18. Electrochemistry.19. The Nucleus: A Chemist's View.20. The Representative Elements.21. Transition Metals and Coordination Chemistry.22. Organic and Biological Molecules.Appendix 1. Mathematical Procedures.A1.1 Exponential Notation.A1.2 Logarithms.A1.3 Graphing Functions.A1.4 Solving Quadratic Equations.A1.5 Uncertainties in Measurements.Appendix 2. The Quantitative Kinetic Molecular Model.Appendix 3. Spectral Analysis.Appendix 4. Selected Thermodynamic Data.Appendix 5. Equilibrium Constants and Reduction Potentials.A5.1 Values of  $K_a$  for Some Common Monoprotic Acids.A5.2 Stepwise Dissociation Constants for Several Common Polyprotic Acids.A5.3 Values of  $K_b$  for Some Common Weak Bases.A5.4  $K_{sp}$  Values at 25°C for Common Ionic Solids.A5.5 Standard Reduction Potentials at 25°C (298K) for Many Common Half-Reactions.Appendix 6. SI Units and Conversion Factors.Glossary.Answers to Selected Exercises.

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