

Table des matières

1. **Matter: Its Properties and Measurement**
2. **Atoms and the Atomic Theory**
3. **Chemical Compounds**
4. **Chemical Reactions**
5. **Introduction to Reactions in Aqueous Solutions**
6. **Gases**
7. **Thermochemistry**
8. **Electrons in Atoms**
9. **The Periodic Table and Some Atomic Properties**
10. **Chemical Bonding I: Basic Concepts**
11. **Chemical Bonding II: Valence Bond and Molecular Orbital Theories**
12. **Intermolecular Forces: Liquids and Solids**
13. **Spontaneous Change: Entropy and Gibbs Energy**
14. **Solutions and Their Physical Properties**
15. **Principles of Chemical Equilibrium**
16. **Acids and Bases**
17. **Additional Aspects of Acid–Base Equilibria**
18. **Solubility and Complex-Ion Equilibria**
19. **Electrochemistry**
20. **Chemical Kinetics**
21. **Chemistry of the Main-Group Elements I: Groups 1, 2, 13, and 14**
22. **Chemistry of the Main-Group Elements II: Groups 18, 17, 16, 15, and Hydrogen**
23. **The Transition Elements**
24. **Complex Ions and Coordination Compounds**
25. **Nuclear Chemistry**
26. **Structure of Organic Compounds**
27. **Reactions of Organic Compounds**
28. **Chemistry of the Living State (*en ligne*)**

Annexes

- A. Mathematical Operations
- B. Some Basic Physical Concepts
- C. SI Units
- D. Data Tables
- E. Concept Maps
- F. Glossary
- G. Answers to Practice Examples and Selected Exercises
- H. Answers to Concept Assessment Questions