This text is designed for the two-semester general chemistry course. For many students, this course provides the foundation to a career in chemistry, while for others, this may be their only college-level science course. As such, this textbook provides an important opportunity for students to learn the core concepts of chemistry and understand how those concepts apply to their lives and the world around them. The text has been developed to meet the scope and sequence of most general chemistry courses.

- Front Matter
- 1: Essential Ideas of Chemistry
- 2: Atoms, Molecules, and Ions
- 3: Composition of Substances and Solutions
4: Stoichiometry of Chemical Reactions

5: Thermochemistry

6: Electronic Structure and Periodic Properties

7: Chemical Bonding and Molecular Geometry
8: Advanced Theories of Covalent Bonding

9: Gases

10: Liquids and Solids

11: Solutions and Colloids
12: Kinetics

13: Fundamental Equilibrium Concepts

14: Acid-Base Equilibria

15: Equilibria of Other Reaction Classes
16: Thermodynamics

17: Electrochemistry

18: Representative Metals, Metalloids, and Nonmetals

19: Transition Metals and Coordination Chemistry
Contributors and Attributions

- Paul Flowers (University of North Carolina - Pembroke), Klaus Theopold (University of Delaware) and Richard Langley (Stephen F. Austin State University) with contributing authors. Textbook content produced by OpenStax College is licensed under a Creative Commons Attribution License 4.0 license. Download for free at http://cnx.org/contents/85abf193-2bd...a7ac8df6@9.110).
- Thumbnail: OpenStax