Green Chemistry seeks to present a body of chemical knowledge from the most fundamental level within a framework of the relationship of chemical science to human beings, their surroundings, and their environment. This book discusses real-world chemistry, introducing chemical principles as needed.

- Front Matter

- 1: Sustainability and the Environment

- 2: The Key Role of Chemistry and Making Chemistry Green

- 3: The Elements - Basic Building Blocks of Green Chemicals
4: Compounds- Safer Materials for a Safer World

5: Chemical Reactions- Making Materials Safely and Sustainable

6: The Wonderful World of Carbon - Organic Chemistry and Biochemicals

7: Chemistry of Life and Green Chemistry
8: The Five Environmental Spheres and Biogeochemical Cycle

9: Water - the Ultimate Green Substance

10: Blue Skies for a Green Environment

11: The Geosphere and a Green Earth
12: The Biosphere and the Role of Green Chemistry in Feeding a Hungry World

• 13: The Anthrosphere, Industrial Ecology, and Green Chemistry

• 14: Feeding the Anthrosphere- Utilizing Renewable and Biological Materials

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16: Terrorism, Toxicity, and Vulnerability- Green Chemistry and Technology in Defense of Human Welfare

17: The Ten Commandments of Sustainability and Sensible Measure

Ancillary Materials

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