

CHAPTER OVERVIEW

4: Chemical Reactions

Chemical Principles (Zumdahl and Decoste) Textmap Alternative

Chemical reactions are processes that leads to the transformation of one set of chemical substances (reactants) to another set (products). Chemical reactions encompass changes that only involve the positions of electrons in the forming and breaking of chemical bonds between atoms.

Topic hierarchy

- 4.1: Water, the Universal Solvent
- 4.2: Strong and Weak Electrolytes
- 4.3: The Composition of Solutions
- 4.4: Types of Chemical Reactions
- 4.5: Precipitation Reactions
- 4.6: Reactions in Solution
- 4.7: Selective Precipitation
- 4.8: Stoichiometry of Precipitation Reactions
- 4.9: Acid-Base Reactions
- 4.10: Oxidation-Reduction Reactions
- 4.11: Balancing Redox Equations
- 4.12: Redox Titrations

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