

GENERAL CHEMISTRY  
UNIT 4 PART 1: REACTIONS

4.4 TYPES OF CHEMICAL REACTIONS (OVERVIEW)

A. NON-REDOX REACTIONS

- In these reactions, ions and atoms have already achieved stable electron configurations
- Therefore, there are no transfer of e-s in these rxns
- Rearrangement of atoms occur to produce the most stable compounds

B. OXIDATION-REDUCTION (REDOX) RXNS

- In these rxns, ions and atoms have NOT yet achieved stable electron configurations
- Therefore, e-s are transferred in these rxns to achieve the most stable e-configurations

4.6 DESCRIBING CHEMICAL RXNS IN A SOLUTIONS

A. MOLECULAR EQUATION

- Everything is written as a compound even though it may exist as ions in solution
- Ex:  $\text{NiCl}_2(\text{aq}) + \text{Zn}(\text{s}) \rightarrow \text{ZnCl}_2(\text{aq}) + \text{Ni}(\text{s})$

B. COMPLETE IONIC EQUATION (CIE)

- The strong electrolytes are written as ions
- Ex:  $\text{Ni}^{2+}(\text{aq}) + 2\text{Cl}^{-}(\text{aq}) + \text{Zn}(\text{s}) \rightarrow \text{Zn}^{2+}(\text{aq}) + 2\text{Cl}^{-}(\text{aq})$

C. NET IONIC EQUATION (NIE)

- The ions that don't participate in the rxn (spectator ions) are not shown
- Ex:  $\text{Ni}^{2+}(\text{aq}) + \text{Zn}(\text{s}) \rightarrow \text{Zn}^{2+}(\text{aq}) + \text{Ni}(\text{s})$

4.9 OXIDATION REDUCTION RXNS (REDOX)

A. OXIDATION (OX)

- Loss of e-s, substance becomes more positive (Zn is oxidized)
- Ox  $\frac{1}{2}$  reaction: shows just what is losing e-s
- Ex:  $\text{Zn}(\text{s}) \rightarrow \text{Zn}^{2+}(\text{aq}) + 2\text{e}^{-}$

B. REDUCTION (RED)

- Gain of e-s, substance becomes less positive ( $\text{Ni}^{2+}$  is reduced)
- Red  $\frac{1}{2}$  rxn: shows just what is gaining e-s
- Ex:  $\text{Ni}^{2+}(\text{aq}) + 2\text{e}^{-} \rightarrow \text{Ni}(\text{s})$
- OIL RIG (oxidation is losing e-, reduction is gaining e-)

C. OXIDIZING AGENT

- The substance that causes the ox, takes the e-s, is reduced
- Ex: OA =  $\text{Ni}^{2+}$

D. REDUCING AGENT

- The substance that causes the red, gives the e-s, is oxidized
- Ex: RA = Zn

E. TYPES OF REDOX RXNS

- Combination/composition/synthesis

# General Chemistry Practical Study Guide Answers

**Wenbin Ji**



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### **Table of Contents General Chemistry Practical Study Guide Answers**

1. Understanding the eBook General Chemistry Practical Study Guide Answers
  - The Rise of Digital Reading General Chemistry Practical Study Guide Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying General Chemistry Practical Study Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an General Chemistry Practical Study Guide Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from General Chemistry Practical Study Guide Answers
  - Personalized Recommendations

- General Chemistry Practical Study Guide Answers User Reviews and Ratings
- General Chemistry Practical Study Guide Answers and Bestseller Lists
- 5. Accessing General Chemistry Practical Study Guide Answers Free and Paid eBooks
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  - General Chemistry Practical Study Guide Answers Budget-Friendly Options
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  - ePub, PDF, MOBI, and More
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  - General Chemistry Practical Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of General Chemistry Practical Study Guide Answers
  - Highlighting and Note-Taking General Chemistry Practical Study Guide Answers
  - Interactive Elements General Chemistry Practical Study Guide Answers
- 8. Staying Engaged with General Chemistry Practical Study Guide Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers General Chemistry Practical Study Guide Answers
- 9. Balancing eBooks and Physical Books General Chemistry Practical Study Guide Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection General Chemistry Practical Study Guide Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine General Chemistry Practical Study Guide Answers
  - Setting Reading Goals General Chemistry Practical Study Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Chemistry Practical Study Guide Answers
  - Fact-Checking eBook Content of General Chemistry Practical Study Guide Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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