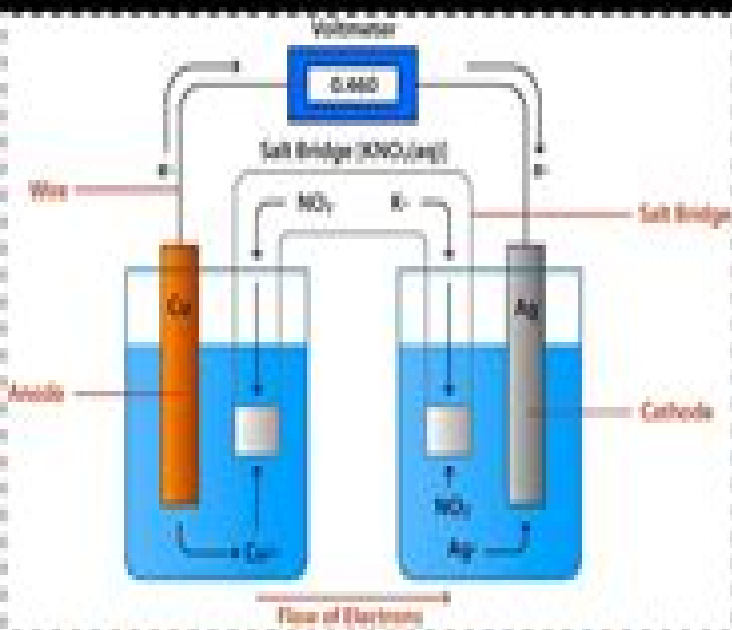
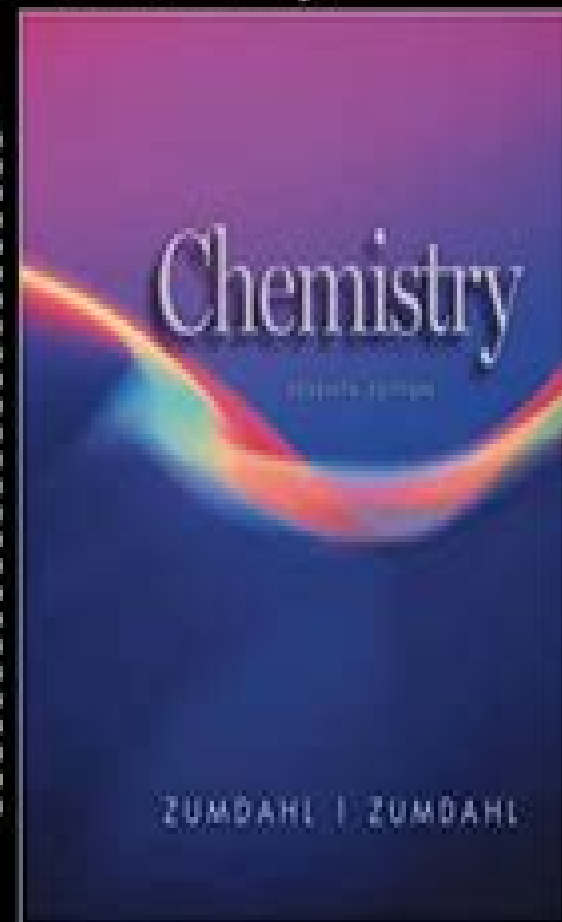


# ZUMDAHL CHEMISTRY 7TH ED.

## CHAPTER 17 (ELECTROCHEM)



Half-Reaction	Half-Reaction	Standard Potential (V)
$\text{F}_2 + 2\text{e}^- \rightarrow 2\text{F}^-$	$2\text{H}^+ + 2\text{e}^- \rightarrow \text{H}_2$	2.87
$\text{H}_2\text{O}_2 + 2\text{H}^+ + 2\text{e}^- \rightarrow 2\text{H}_2\text{O}$	$\text{H}_2\text{O}_2 + 2\text{e}^- \rightarrow 2\text{OH}^-$	1.78
$\text{MnO}_4^- + 8\text{H}^+ + 5\text{e}^- \rightarrow \text{Mn}^{2+} + 4\text{H}_2\text{O}$	$\text{MnO}_4^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{MnO}_2 + 4\text{OH}^-$	1.51
$\text{Au}^{3+} + 3\text{e}^- \rightarrow \text{Au}$	$\text{Au}^{3+} + 2\text{e}^- \rightarrow \text{Au}^+$	1.50
$\text{Cl}_2 + 2\text{e}^- \rightarrow 2\text{Cl}^-$	$\text{Cl}_2 + \text{H}_2\text{O} + 2\text{e}^- \rightarrow \text{HClO} + \text{Cl}^-$	1.36
$\text{O}_2 + 4\text{H}^+ + 4\text{e}^- \rightarrow 2\text{H}_2\text{O}$	$\text{O}_2 + 2\text{H}_2\text{O} + 4\text{e}^- \rightarrow 4\text{OH}^-$	1.23
$\text{O}_3 + 2\text{H}^+ + 2\text{e}^- \rightarrow \text{O}_2 + \text{H}_2\text{O}$	$\text{O}_3 + \text{H}_2\text{O} + 2\text{e}^- \rightarrow \text{O}_2 + 2\text{OH}^-$	1.23
$\text{Br}_2 + 2\text{e}^- \rightarrow 2\text{Br}^-$	$\text{Br}_2 + \text{H}_2\text{O} + 2\text{e}^- \rightarrow \text{HBrO} + \text{Br}^-$	1.07
$\text{NO}_3^- + 4\text{H}^+ + 3\text{e}^- \rightarrow \text{NO} + 2\text{H}_2\text{O}$	$\text{NO}_3^- + 2\text{H}_2\text{O} + 3\text{e}^- \rightarrow \text{NO}_2 + 4\text{OH}^-$	0.96
$\text{Ag}^+ + \text{e}^- \rightarrow \text{Ag}$	$\text{Ag}^+ + 2\text{e}^- \rightarrow \text{Ag}_2$	0.80
$\text{I}_2 + 2\text{e}^- \rightarrow 2\text{I}^-$	$\text{I}_2 + \text{H}_2\text{O} + 2\text{e}^- \rightarrow \text{HI} + \text{I}^-$	0.54
$\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$	$\text{Cu}^{2+} + \text{e}^- \rightarrow \text{Cu}^+$	0.52
$\text{O}_2 + 2\text{H}_2\text{O} + 4\text{e}^- \rightarrow 4\text{OH}^-$	$\text{O}_2 + 2\text{H}^+ + 2\text{e}^- \rightarrow \text{H}_2\text{O}_2$	0.40
$\text{Cu}^{2+} + \text{e}^- \rightarrow \text{Cu}^+$	$\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$	0.34
$\text{H}_2\text{O}_2 + 2\text{H}^+ + 2\text{e}^- \rightarrow 2\text{H}_2\text{O}$	$\text{H}_2\text{O}_2 + 2\text{e}^- \rightarrow \text{H}_2 + \text{O}_2$	0.00
$\text{Fe}^{3+} + \text{e}^- \rightarrow \text{Fe}^{2+}$	$\text{Fe}^{3+} + 2\text{e}^- \rightarrow \text{Fe}$	-0.04
$\text{Sn}^{4+} + 2\text{e}^- \rightarrow \text{Sn}^{2+}$	$\text{Sn}^{4+} + 4\text{e}^- \rightarrow \text{Sn}$	-0.14
$\text{Pb}^{2+} + 2\text{e}^- \rightarrow \text{Pb}$	$\text{Pb}^{2+} + 2\text{e}^- \rightarrow \text{Pb}$	-0.26
$\text{Fe}^{2+} + 2\text{e}^- \rightarrow \text{Fe}$	$\text{Fe}^{2+} + 2\text{e}^- \rightarrow \text{Fe}$	-0.45
$\text{Cr}^{3+} + 3\text{e}^- \rightarrow \text{Cr}$	$\text{Cr}^{3+} + 3\text{e}^- \rightarrow \text{Cr}$	-0.74
$\text{Zn}^{2+} + 2\text{e}^- \rightarrow \text{Zn}$	$\text{Zn}^{2+} + 2\text{e}^- \rightarrow \text{Zn}$	-0.76
$\text{H}_2\text{O}_2 + 2\text{H}^+ + 2\text{e}^- \rightarrow 2\text{H}_2\text{O}$	$\text{H}_2\text{O}_2 + 2\text{e}^- \rightarrow \text{H}_2 + \text{O}_2$	-0.83
$\text{Ni}^{2+} + 2\text{e}^- \rightarrow \text{Ni}$	$\text{Ni}^{2+} + 2\text{e}^- \rightarrow \text{Ni}$	-1.18
$\text{Al}^{3+} + 3\text{e}^- \rightarrow \text{Al}$	$\text{Al}^{3+} + 3\text{e}^- \rightarrow \text{Al}$	-1.68



# Zumdahl Chemistry Chapter 17

**RJ Alexander**



## **Zumdahl Chemistry Chapter 17:**

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### **Table of Contents Zumdahl Chemistry Chapter 17**

1. Understanding the eBook Zumdahl Chemistry Chapter 17
  - The Rise of Digital Reading Zumdahl Chemistry Chapter 17
  - Advantages of eBooks Over Traditional Books
2. Identifying Zumdahl Chemistry Chapter 17
  - 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 Zumdahl Chemistry Chapter 17
  - User-Friendly Interface
4. Exploring eBook Recommendations from Zumdahl Chemistry Chapter 17
  - Personalized Recommendations
  - Zumdahl Chemistry Chapter 17 User Reviews and Ratings
  - Zumdahl Chemistry Chapter 17 and Bestseller Lists

5. Accessing Zumdahl Chemistry Chapter 17 Free and Paid eBooks
  - Zumdahl Chemistry Chapter 17 Public Domain eBooks
  - Zumdahl Chemistry Chapter 17 eBook Subscription Services
  - Zumdahl Chemistry Chapter 17 Budget-Friendly Options
6. Navigating Zumdahl Chemistry Chapter 17 eBook Formats
  - ePub, PDF, MOBI, and More
  - Zumdahl Chemistry Chapter 17 Compatibility with Devices
  - Zumdahl Chemistry Chapter 17 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Zumdahl Chemistry Chapter 17
  - Highlighting and Note-Taking Zumdahl Chemistry Chapter 17
  - Interactive Elements Zumdahl Chemistry Chapter 17
8. Staying Engaged with Zumdahl Chemistry Chapter 17
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Zumdahl Chemistry Chapter 17
9. Balancing eBooks and Physical Books Zumdahl Chemistry Chapter 17
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Zumdahl Chemistry Chapter 17
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Zumdahl Chemistry Chapter 17
  - Setting Reading Goals Zumdahl Chemistry Chapter 17
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Zumdahl Chemistry Chapter 17
  - Fact-Checking eBook Content of Zumdahl Chemistry Chapter 17
  - 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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