

# CHAPTER 2

## Electrochemistry

### SUMMARY

#### 1. ELECTROLYTIC CELL

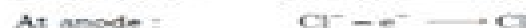
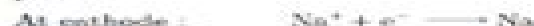
It is a device in which electricity from outside source is used to carry out a reaction (electrolysis). The device or cell used to carry out electrolysis is called electrolytic cell.

#### 2. ELECTROCHEMICAL CELL OR GALVANIC CELL

It is a device in which indirect redox reaction takes place and decrease in energy during the reaction appears in the form of electricity.

#### 3. ELECTROLYSIS OF MOLTEN NaCl

In molten state, NaCl consists of  $\text{Na}^+$  consist  $\text{Cl}^-$  ions. On passing electricity, following reactions takes place :



The over all reaction :



#### 4. ELECTROLYSIS OF ACIDIFIED WATER

It consists of  $\text{H}^+$ ,  $\text{OH}^-$ ,  $\text{SO}_4^{2-}$  ions.

On passing electricity, following reactions takes place :



The overall reaction is :



#### 5. ELECTROLYSIS OF CONCENTRATED AQUEOUS NaCl

It consists of  $\text{Na}^+$ ,  $\text{H}^+$ ,  $\text{Cl}^-$  and  $\text{OH}^-$  ions.

On passing electricity, following reactions takes place :



The overall reaction is :



The solution becomes basic in nature due to the formation of NaOH.

#### 6. ELECTROLYSIS OF AQUEOUS $\text{CuSO}_4$

It consists of  $\text{Cu}^{2+}$ ,  $\text{H}^+$ ,  $\text{SO}_4^{2-}$  and  $\text{OH}^-$  ions.

On passing electricity, following reaction takes place :



The overall reaction is :



The solution becomes acidic in nature due to the formation of  $\text{H}_2\text{SO}_4$ .

#### 7. ELECTROLYSIS OF $\text{CuSO}_4$ USING Cu ELECTRODES

It consists of  $\text{Cu}^{2+}$ ,  $\text{H}^+$ ,  $\text{SO}_4^{2-}$  and  $\text{OH}^-$  ions.

On passing electricity, following reactions takes place :



#### 8. FARADAY'S LAW OF ELECTROLYSIS

(a) The amount of substance deposited at any electrode during electrolysis is directly proportional to the quantity of electricity passing i.e.,

$$W \propto Q$$

$$W = zQ$$

$$\text{or } W = zIt$$

Where,  $z$  = electrochemical equivalent,

$W$  = amount of the substance deposited (g),

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**Léo Pomar**



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## **Table of Contents Class12 Chapterwise Chemistry Notes**

1. Understanding the eBook Class12 Chapterwise Chemistry Notes
  - The Rise of Digital Reading Class12 Chapterwise Chemistry Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Class12 Chapterwise Chemistry Notes
  - 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 Class12 Chapterwise Chemistry Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Class12 Chapterwise Chemistry Notes
  - Personalized Recommendations
  - Class12 Chapterwise Chemistry Notes User Reviews and Ratings
  - Class12 Chapterwise Chemistry Notes and Bestseller Lists
5. Accessing Class12 Chapterwise Chemistry Notes Free and Paid eBooks
  - Class12 Chapterwise Chemistry Notes Public Domain eBooks
  - Class12 Chapterwise Chemistry Notes eBook Subscription Services
  - Class12 Chapterwise Chemistry Notes Budget-Friendly Options

6. Navigating Class12 Chapterwise Chemistry Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Class12 Chapterwise Chemistry Notes Compatibility with Devices
  - Class12 Chapterwise Chemistry Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Class12 Chapterwise Chemistry Notes
  - Highlighting and Note-Taking Class12 Chapterwise Chemistry Notes
  - Interactive Elements Class12 Chapterwise Chemistry Notes
8. Staying Engaged with Class12 Chapterwise Chemistry Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Class12 Chapterwise Chemistry Notes
9. Balancing eBooks and Physical Books Class12 Chapterwise Chemistry Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Class12 Chapterwise Chemistry Notes
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Class12 Chapterwise Chemistry Notes
  - Setting Reading Goals Class12 Chapterwise Chemistry Notes
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Class12 Chapterwise Chemistry Notes
  - Fact-Checking eBook Content of Class12 Chapterwise Chemistry Notes
  - 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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