

## CHAPTER NINE

# ELECTROCHEMISTRY

Electrochemistry is the branch of chemistry that deals with chemical changes that are produced by passing electric current into a chemical system or the generation of electricity by spontaneous chemical reactions.

### MODES OF CONDUCTION OF SUBSTANCES

The substances that allow electric current to flow through them are called conductors. Those that do not allow electric current to flow through them are called non-conductors or insulators. The conductors are classified into two type i.e. *metallic conductors* and *electrolytic conductors*.

#### 1. Metallic conductors

Metals or alloys allow electric current to flow through them without undergoing any chemical change. The metals conduct electric current by use of *free mobile electrons (delocalised electrons)*. These include copper, silver, aluminium and others. This mode of conduction is called *electronic conduction*.

#### 2. Electrolytic conductors

These include *aqueous solutions of electrolytes* or molten electrolytes. They are compounds and chemical changes occur when they conduct electricity. The electrolytes conduct electric current by use of *free mobile ions*. Examples include dilute hydrochloric acid, aqueous sodium chloride, molten lead(II) bromide and others. This mode of conduction is called *electrolytic conduction*.

## ELECTROLYSIS

*Electrolysis is the decomposition of a compound in its molten state or in solution by passage of an electric current through it.*

*or*

*The overall chemical change that occurs at the electrodes when an electric current passes through a fused electrolyte or its aqueous solution*

The electrolyte, solvent or electrode may all be involved in the electrolytic reaction

### The common terms used in electrolysis

#### 1. Electrolytes

These are compounds which conduct electric current in solution or in molten state and are decomposed by it.

A non-electrolyte is a substance which does not conduct electric current in molten state or aqueous solution and cannot be decomposed by electric current. For example sucrose

Electrolytes can be salts, acids or bases.

Electrolytes can be classified as *strong* or *weak*.

# Electrochemistry The Interfacing Science Studies In Physical And Theoretical Chemistry Volume 34

**RM Cervero**



**Electrochemistry The Interfacing Science Studies In Physical And Theoretical Chemistry Volume 34:**

## Reviewing **Electrochemistry The Interfacing Science Studies In Physical And Theoretical Chemistry Volume 34:** Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Electrochemistry The Interfacing Science Studies In Physical And Theoretical Chemistry Volume 34**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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