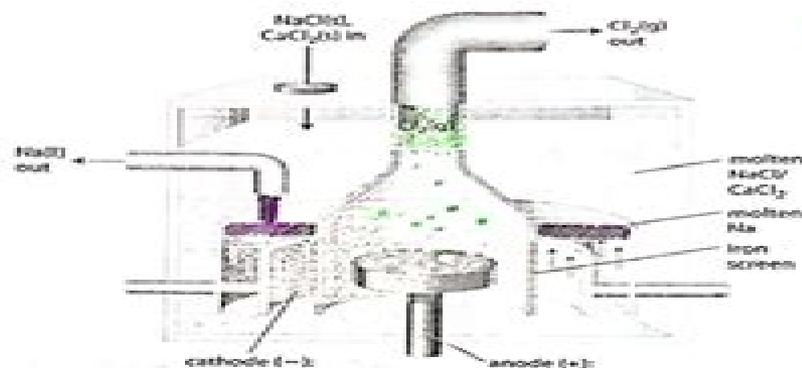


# IGCSE – HONORS – ELECTROCHEMISTRY NOTES AND STUDY GUIDE:

## Electrolysis of sodium chloride (in the industry)

Industrial electrolysis of molten Sodium Chloride requires extreme temperatures.

- Calcium Chloride is added to the mixture to lower the melting point of Sodium Chloride.
- Molten sodium metal floats in the mixture because of its low density.
- The anode is carbon
- The cathode is iron
- Chlorine gas is collected separately



3.

## 4. electrolysis of Aluminum oxide (molten)

Electrodes: graphite (carbon)

Electrolyte: molten Alumina (Al<sub>2</sub>O<sub>3</sub>)

Alumina = Purified Bauxite

Which substance is added to the molten alumina? cryolite

Ions Present: Al<sup>3+</sup>, O<sup>2-</sup>

Half equations:

In the Cathode (Al<sup>3+</sup> + 3e<sup>-</sup> → Al) × 4

In the Anode (2O<sup>2-</sup> → O<sub>2</sub> + 4e<sup>-</sup>) × 3

Overall Equation 4 Al<sup>3+</sup> + 6 O<sup>2-</sup> → 4 Al + 3 O<sub>2</sub>

Observations:

Cathode: The Molten Aluminum can be observed

Anode: Bubbles of Oxygen gas will appear

Why is it necessary to change the electrodes periodically?

Because the anodes will burn out. Anode reacts with O<sub>2</sub> to form CO<sub>2</sub>

Which is the purpose of the cryolite?

To lower the melting point of the Aluminum Oxide



# Electrochemistry Answers Study Guide For Content Mastery

**John Anthony Littlewood**



## **Electrochemistry Answers Study Guide For Content Mastery:**

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2018 Yusuf Rahman, Irma Riyani, Kusmana, Dadang Darmawan, Izzah Faizah Siti Rusydadi Khairani, Jajang A Rohmana, 2018-10-02 Proceedings of the 2nd International Conference on Quran and Hadith Studies Information Technology and Media in Conjunction with the 1st International Conference on Islam Science and Technology ICONQUHAS ICONIST Bandung October 2 4 2018 Indonesia Now days Multimedia devices offer opportunities in transforming the Quran and Hadith into different forms of use and into extended areas of studies Technology information offers challenges as well as opportunity Therefore Faculty of Ushuluddin UIN the State Islamic University Syarif Hidayatullah Jakarta of UIN Sunan Gunung Djati Bandung and UIN Maulana Malik Ibrahim Malang held jointly the 2nd International Conference on Qur an and Hadith Studies ICONQUHAS 2018 and the 1st International Conference on Islam Science and Technology ICONIST2018 with the theme Qur an Hadith Information Technology and Media Challenges and Opportunities This conference aims at bringing together scholars and researchers to share their knowledge and their research findings This publication resulted from the selected papers of these conferences

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*Course* Jan Theodoor Gerard Overbeek,1981     **Basic Concepts in Electrochemistry** Polagony

Venkateshwarlu,2024-09-30 As you know that electrochemistry is a fascinating subject that plays an important role in our everyday life activities it is the study of chemical processes that cause electrons to move This movement of electrons what we commonly known as electricity Powers many of the devices and systems that are integral to modern living This brilliant book provides a reference for students especially grade X and XII who want to learn basic principles in electrochemistry It is designed to provide fundamental principles of electrochemistry in simple manner which can be suitable to the needs of students and their better understanding of theoretical and practical applications in electrochemistry An attempt has been made to discuss about types of electrochemical cells on evolutionary basis from voltaic cell to sodium ion battery Simple outline has been covered based on structure components and functioning At the last a great attempt is also made to provide solution for NCERT exercise and some worksheet provided for practice of concepts     **A Workbook of Electrochemistry**

John Bockris,2012-12-06 In this book the objective has been to set down a number of questions largely numerical problems to help the student of electrochemical science No collection of problems in electrochemistry has previously been published The challenge which faces the authors of such a book is the breadth of the material in modern electrochemistry and the diversity of backgrounds and needs of people who may find a problems book in electrochemistry to be of use The general intention for Chapters 2 11 has been to give the first ten questions at a level which can be dealt with by students who are undergoing instruction in the science of electrochemistry but have not yet reached graduate standard in it The last two questions in Chapters 2 11 have been chosen at a more advanced standard corresponding to that expected of someone with knowledge at the level of a Ph D degree in electrochemistry     *Introduction to Electrochemistry* John Anthony Littlewood,1976-01

**Solved Problems in Electrochemistry for Universities and Industry** Dominique L. Piron,2004

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