

Galvanic Cells

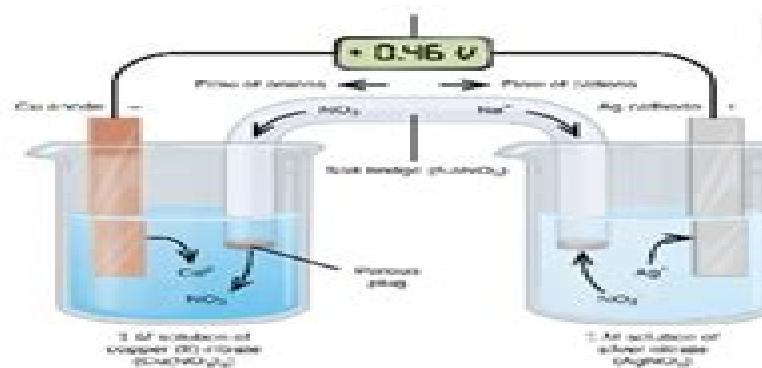
1. Introduction

Aim : The aim of this experiment is to measure the electric potential of a galvanic cell and compare it with the actual potential.

Galvanic cells are electrochemical cells in which electricity generates spontaneous oxidation reduction processes, commonly known as voltaic cells. When drafting the equations, oxidation - reduction reactions are typically separated into half-reactions to enable the entire equation to be balanced and to stress the actual chemical transitions. Oxidation is the loss of electrons or an increase in the oxidation number of an atom. Reduction is the gain of electrons or a decrease in the oxidation number of an atom.

The cell is made up of two half cells. The half cell shown at the left of the figure contains copper in an aqueous solution of copper nitrate. The half cell on the right contains silver ions in an aqueous solution of silver nitrate. A tube containing an inert electrolyte solution, known as a **salt bridge** is used to separate the two half cells. The electrodes in an electrochemical cell are called the cathode and anode. They are made of a solid metal and are submerged into a solution of the electrodes' ion called the electrolyte. For example, in Figure 1 since the electrode is made up of copper, the electrolyte is in a solution of an Cu^{2+} ions. **The anode** is where the oxidation occurs. It is always drawn on the left. **The cathode** is where the reduction takes place. It is always drawn on the right. An external conductor is connected to both the electrodes which completes the circuit.

FIGURE 1: Schematics of a galvanic cell



As oxidation takes place in the anode, Zn oxidises and turns into Zn^{2+} .

Galvanic Cell Lab Report

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Working with Chemistry Donald J. Wink, Sharon Fetzer-Gislason, Julie Ellefson Kuehn, 2004-02-20 With this modular laboratory program students build skills using important chemical concepts and techniques to the point where they are able to design a solution to a scenario drawn from a professional environment. The scenarios are drawn from the lives of people who work with chemistry every day ranging from field ecologists to chemical engineers and include many health professionals as well.

Chemistry (Teacher Guide) Dr. Dennis Englin, 2018-02-26 This book was created to help teachers as they instruct students through the Master's Class Chemistry course by Master Books. The teacher is one who guides students through the subject matter helps each student stay on schedule and be organized and is their source of accountability along the way. With that in mind this guide provides additional help through the laboratory exercises as well as lessons quizzes and examinations that are provided along with the answers. The lessons in this study emphasize working through procedures and problem solving by learning patterns. The vocabulary is kept at the essential level. Practice exercises are given with their answers so that the patterns can be used in problem solving. These lessons and laboratory exercises are the result of over 30 years of teaching home school high school students and then working with them as they proceed through college. Guided labs are provided to enhance instruction of weekly lessons. There are many principles and truths given to us in Scripture by the God that created the universe and all of the laws by which it functions. It is important to see the hand of God and His principles and wisdom as it plays out in chemistry. This course integrates what God has told us in the context of this study. Features: Each suggested weekly schedule has five easy to manage lessons that combine reading and worksheets. Worksheets quizzes and tests are perforated and three hole punched materials are easy to tear out hand out grade and store. Adjust the schedule and materials needed to best work within your educational program. Space is given for assignments dates. There is flexibility in scheduling. Adapt the days to your school schedule. Workflow: Students will read the pages in their book and then complete each section of the teacher guide. They should be encouraged to complete as many of the activities and projects as possible as well. Tests are given at regular intervals with space to record each grade. About the Author: DR DENNIS ENGLIN earned his bachelor's from Westmont College his master of science from California State University and his EdD from the University of Southern California. He enjoys teaching animal biology, vertebrate biology, wildlife biology, organismic biology and astronomy at The Master's University. His professional memberships include the Creation Research Society, the American Fisheries Association, Southern California Academy of Sciences, Yellowstone Association and Au Sable Institute of Environmental Studies. *Catalog of Technical Reports* United States. Dept. of Commerce. Office of Technical Services, *Chemistry Education in the ICT Age* Minu Gupta, Bhowon, Sabina Jhaumeer-Laulloo, Henri Li Kam Wah, Ponnadurai Ramasami, 2009-07-21 th th The 20 International Conference on Chemical Education 20 ICCE which had rd th Chemistry in the ICT Age as the theme was held from 3 to 8 August 2008 at Le Mridien

Hotel Pointe aux Piments in Mauritius With more than 200 participants from 40 countries the conference featured 140 oral and 50 poster presentations th Participants of the 20 ICCE were invited to submit full papers and the latter were subjected to peer review The selected accepted papers are collected in this book of proceedings This book of proceedings encloses 39 presentations covering topics ranging from fundamental to applied chemistry such as Arts and Chemistry Education Biochemistry and Biotechnology Chemical Education for Development Chemistry at Secondary Level Chemistry at Tertiary Level Chemistry Teacher Education Chemistry and Society Chemistry Olympiad Context Oriented Chemistry ICT and Chemistry Education Green Chemistry Micro Scale Chemistry Modern Technologies in Chemistry Education Network for Chemistry and Chemical Engineering Education Public Understanding of Chemistry Research in Chemistry Education and Science Education at Elementary Level We would like to thank those who submitted the full papers and the reviewers for their timely help in assessing the papers for publication th We would also like to pay a special tribute to all the sponsors of the 20 ICCE and in particular the Tertiary Education Commission <http://tec.intnet.mu> and the Organisation for the Prohibition of Chemical Weapons <http://www.opcw.org> for kindly agreeing to fund the publication of these proceedings

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