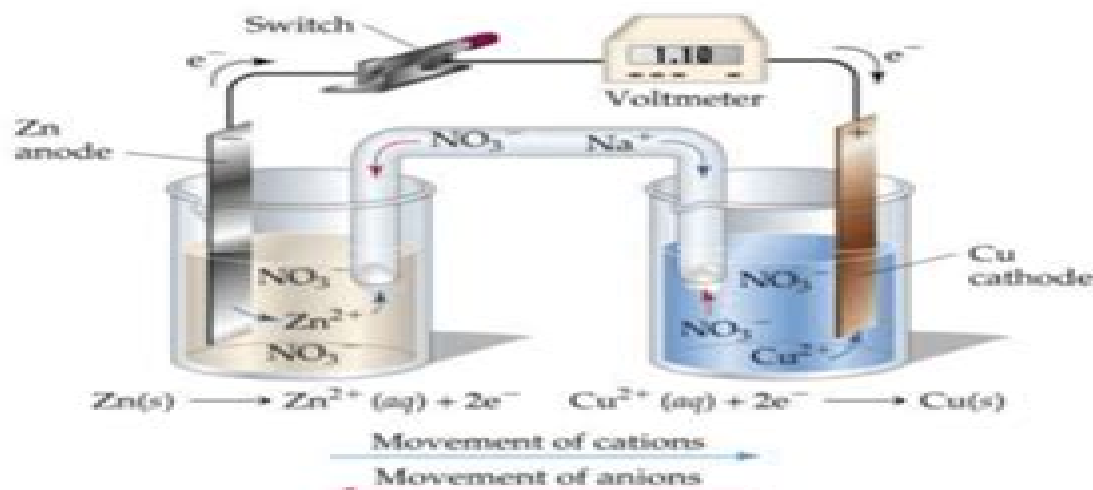


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Report for experiment 21G
Electrochemistry: Galvanic Cells and Batteries

Introduction to electrochemical cells (a.k.a. galvanic cells or batteries):

The energy produced by an **electrochemical cell** is due to a spontaneous redox reaction. An electrochemical cell consists of two **half-cells**. Each half-cell consists of an **electrode** (usually metal) submerged in its own salt. For example, the half-cell on the right in the figure below is made of a piece of copper submerged in a solution of copper nitrate. An oxidation reaction (loss of electrons) occurs in one of the half-cells and a reduction reaction (gain of electrons) occurs in the other half-cell. Each of these is called a **half reaction**. The **overall cell reaction** is the sum of the two half reactions. The electrode at which oxidation takes place is called the **anode**. The electrode at which reduction takes place is called the **cathode**. The two half cells are connected in two ways. The electrodes are connected by a wire and the salt solutions are connected by a "salt bridge". Electrons are lost by the anode and flow through the wire to the cathode. The electrons flow through the cathode until they touch the salt solution where they are taken up by cations in the solution. Thus, the metallic anode is oxidized and the cations in the cathode compartment are reduced. The cations resulting from the oxidation reaction at the anode enter the salt solution in the anode compartment. The uncharged metal atoms resulting from the reduction reaction stick to the cathode. Aqueous ions flow between the two half cells through the salt bridge to complete the electrical circuit. The cell potential (also called cell voltage) is basically the same thing as ΔG . It tells you how much work a battery can do. It is the "driving force" for the reaction. It tells how far the reaction is from equilibrium. A positive cell potential means that the forward reaction is spontaneous. (This is the opposite of the sign convention for ΔG .) When measuring the voltage of a cell with a voltmeter, the reaction does not take place because the voltmeter pushes the electrons back toward the anode. An ammeter reads the current (rate of current flow in Amps = coulombs/sec) as electrons flow from the anode to the cathode.



Galvanic Cell Lab Report

Ponnadurai Ramasami

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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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

Catalog of Technical Reports United States. Dept. of Commerce. Office of Technical Services,

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

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In some sort of eaten by monitors and the ceaseless chatter of fast transmission, the melodic splendor and mental symphony created by the prepared word frequently diminish in to the backdrop, eclipsed by the constant sound and distractions that permeate our lives. However, nestled within the pages of **Galvanic Cell Lab Report** a stunning fictional treasure filled with natural emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, that interesting masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of the moving analysis, we will examine the book is main harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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