

### Terms to Know:

- Electrochemistry**—the study of the interchange of chemical and electrical energy  
**OIL RIG** – oxidation is loss, reduction is gain (of electrons)  
**Oxidation** – the loss of electrons, increase in charge  
**Reduction** – the gain of electrons, reduction of charge  
**Oxidation number** – the assigned charge on an atom  
**Oxidizing agent (OA)** – the species that is reduced and thus *causes* oxidation  
**Reducing agent (RA)** – the species that is oxidized and thus *causes* reduction

### ELECTROCHEMISTRY INVOLVES TWO MAIN TYPES OF PROCESSES:

- Galvanic (voltaic) cells** – which are spontaneous chemical reactions (battery)
- Electrolytic cells** – which are non-spontaneous and require external  $e^-$  source (DC power source)
- BOTH** of these fit into the category entitled **Electrochemical cells**

## GALVANIC CELLS

### Parts of the voltaic or galvanic cell:

- Anode--the electrode where oxidation occurs. After a period of time, the anode may appear to become smaller as it falls into solution.
- Cathode-- the anode where reduction occurs. After a period of time it may appear larger, due to ions from solution plating onto it.
- inert electrodes—used when a gas is involved OR ion to ion involved such as  $Fe^{3+}$  being reduced to  $Fe^{2+}$  rather than  $Fe^0$ . Made of Pt or graphite.
- Salt bridge -- a device used to maintain electrical neutrality in a galvanic cell. This may be filled with agar which contains a neutral salt or it may be replaced with a porous cup.
- Electron flow -- always from anode to cathode. (through the wire)
- Standard cell notation (line notation) - anode/solution// cathode solution/ cathode Ex.  $Zn/Zn^{2+} (1.0 M) // Cu^{2+} (1.0 M) / Cu$
- Voltmeter - measures the cell potential (*emf*) . Usually is measured in volts.

Balance this re-dox reaction:



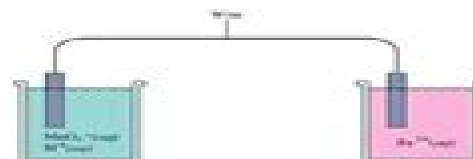
RED:

OA:

OX:

RA

Overall rxn:



# Laying The Foundation Ap Chemistry Electrochemistry

**Kathleen Armour**



## **Laying The Foundation Ap Chemistry Electrochemistry:**

Comprehensive Treatise of Electrochemistry Peter Horsman, Brian E. Conway, E. Yeager, 2013-03-12 It is now time for a comprehensive treatise to look at the whole field of electrochemistry The present treatise was conceived in 1974 and the earliest invitations to authors for contributions were made in 1975 The completion of the early volumes has been delayed by various factors There has been no attempt to make each article emphasize the most recent situation at the expense of an overall statement of the modern view This treatise is not a collection of articles from Recent Advances in Electrochemistry or Modern Aspects of Electrochemistry It is an attempt at making a mature statement about the present position in the vast area of what is best looked at as a new interdisciplinary field Texas A M University J O M Bockris University of Ottawa B E Conway Case Western Reserve University Ernest Yeager Texas A M University Ralph E White Preface to Volume 8 Experimental methods in electrochemistry are becoming more diverse This volume describes many of the new techniques that are being used as well as some of the well established techniques It begins with two chapters 1 and 2 on electronic instrumentation and methods for utilization of microcomputers for experimental data acquisition and reduction Next two chapters 3 and 4 on classical methods of electrochemical analysis are presented ion selective electrodes and polarography

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*Advanced Materials and Structural Engineering* Jong Wan Hu, 2016-02-03 The ICAMEST 2015 Conference covered new developments in advanced materials and engineering structural technology Applications in civil mechanical industrial and material science are covered in this book Providing high quality scholarly research addressing developments applications and implications in the field of structural health monitoring construction safety and management sensors and measurements This volume contains new models for nonlinear structural analysis and applications of modeling identification Furthermore advanced chemical materials are discussed with applications in mechanical and civil engineering and for the maintenance of new materials In addition a new system of pressure regulating and water conveyance based on small and middle hydropower stations is discussed An experimental investigation of the ultimate strength and behavior of the three types of steel tubular K joints was presented Furthermore real time and frequency linear and nonlinear modeling performance of materials of structures contents were concluded with the notion of a fully brittle material and this approach is implemented in the book by outlining a finite element method for the prediction of the construction performance and cracking patterns of arbitrary

structural concrete forms This book is an ideal reference for practicing engineers in material mechanical and civil engineering and consultants design construction maintenance and can also be used as a reference for students in mechanical and civil engineering courses     Comprehensive Treatise of Electrochemistry: Experimental methods in electrochemistry John O'M. Bockris,1980     **Chemical & Metallurgical Engineering** Eugene Franz Roeber,Howard Coon Parmelee,1919 **Soviet Progress in Chemistry** ,1984     **Engineering News and American Contract Journal** ,1906 **Engineering News** ,1906     Electrochemical and Metallurgical Industry Eugene Franz Roeber,Howard Coon Parmelee,1919     **Engineering News** ,1911-07     The Journal of Industrial and Engineering Chemistry ,1917     **Journal of Industrial and Engineering Chemistry** ,1917     **The Encyclopædia Britannica: Edwardes-Evangelical Association** ,1910     **Russian Journal of Electrochemistry** ,2002     *Platers' Guide* ,1919     Scientific and Technical Aerospace Reports ,1989 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database     **The Brass World and Platers Guide** ,1919     **The Bulletin of the American Ceramic Society** American Ceramic Society,1938     Scientific American ,1910     **The Development of the Sciences** Ernest William Brown, Henry Andrews Bumstead, John Johnston, Frank Schlesinger, Herbert Ernest Gregory, 1923

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