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:

- A. Galvanic (voltaic) cells which are spontaneous chemical reactions (battery)
- B. Electrolytic cells which are non-spontaneous and require external e source (DC power source)
- C. 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.
- <u>Cathode</u>— 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^{3*} rather than Fe⁰. 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.
- <u>Electron flow</u> always from anode to cathode. (through the wire)
- Standard cell notation (line notation) anode/solution// cathode solution/ cathode Ex. Zn/Zn²⁺ (1.0 M) // Cu²⁺ (1.0 M) / Cu
- <u>Voltmeter</u> measures the cell potential (emf). Usually is measured in volts.

Balance this re-dox reaction:

 MnO_4 + Fe^{2+} \rightarrow Mn^{2+} + Fe^{3+} [acidic]

RED: OA:

OX:

Overall rxn:

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Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag

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AP Chemistry For Dummies Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out or your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam **Cracking the AP Chemistry** Paul Foglino, Princeton Review (Firm), 2004 The fiercer the competition to get into college the more schools require that students prove themselves in other ways than SAT scores and grade point averages The more expensive college educations become the more students take advantage of the opportunity to test out offirst year college courses Includes 2 sample tests with full explanations for all answers The Princeton Review s proven score raising skills and techniques Complete subject review of all the material likely to show up on the AP Chemistry exam Physical Chemistry (Solutions, Photochemistry, Electrochemistry) Dr. S. Ramakrishna, Dr. P. Bhanuprakash, 2024-08-01 We feel immense pleasure in presenting the first edition of Physical Chemistry Solutions Photochemistry Electrochemistry for Semester III chemistry students of all universities in Andhra Pradesh State This book is meticulously crafted in accordance with the latest APSCHE syllabus with effect from the academic year 2023 24 With many years of teaching experience we have come to understand the challenges that students face in comprehending the language and content of the syllabus To address these difficulties we have made a concerted effort to create a simplified

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okay but how does lactic acid increase the production of growth hormone i m glad you asked well okay technically iasked but you get the point as lactic acid metabolites begin to flood the bloodstream this increases the overall acidity makes sense it s called lactic acid after all of the extracellular see more

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