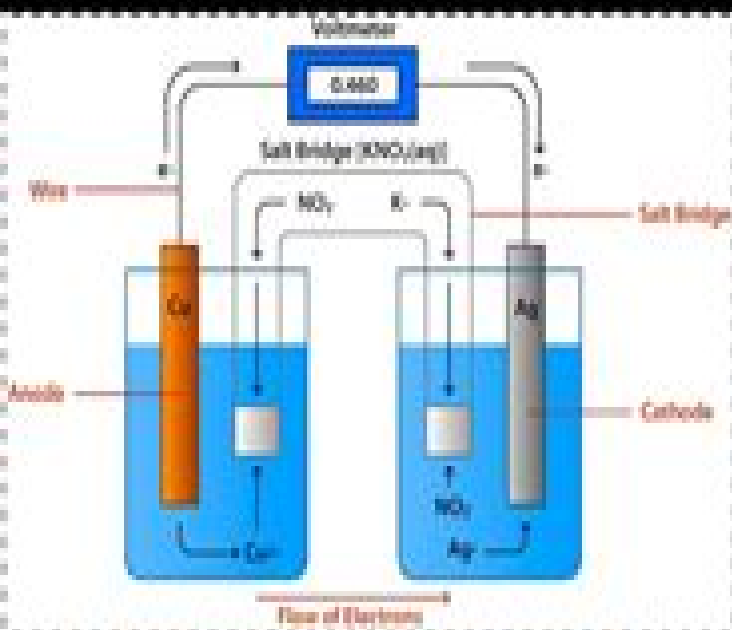
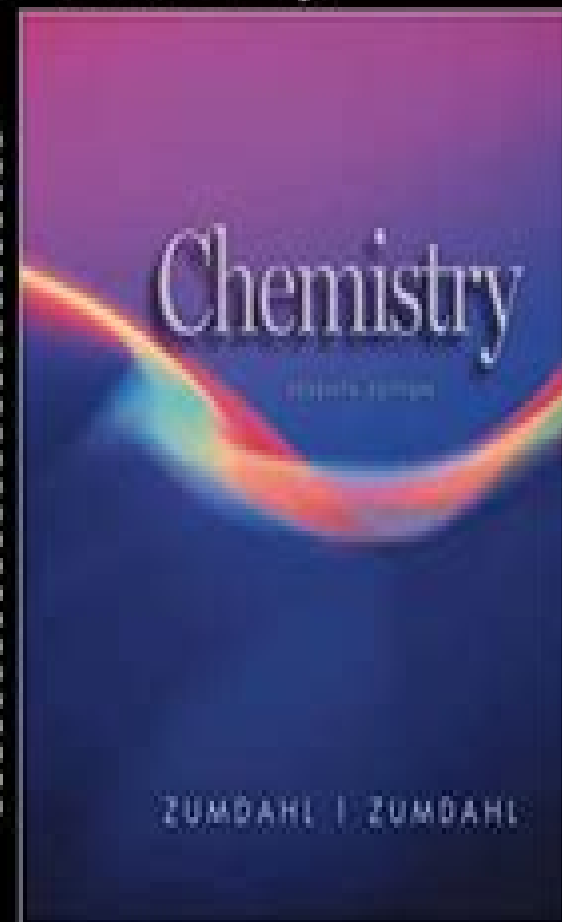


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CHAPTER 17 (ELECTROCHEM)



Oxidizing Agent	Reducing Agent	Standard Potential (V)
F ₂ + 2e ⁻ → 2F ⁻	2F ⁻ → F ₂ + 2e ⁻	2.87
H ₂ O ₂ + 2H ⁺ + 2e ⁻ → 2H ₂ O	2H ₂ O → H ₂ O ₂ + 2H ⁺ + 2e ⁻	1.78
MnO ₄ ⁻ + 8H ⁺ + 5e ⁻ → Mn ²⁺ + 4H ₂ O	Mn ²⁺ + 4H ₂ O → MnO ₄ ⁻ + 8H ⁺ + 5e ⁻	1.51
Ag ⁺ + e ⁻ → Ag	Ag → Ag ⁺ + e ⁻	1.50
Cl ₂ + 2e ⁻ → 2Cl ⁻	2Cl ⁻ → Cl ₂ + 2e ⁻	1.36
O ₂ + 4H ⁺ + 4e ⁻ → 2H ₂ O	2H ₂ O → O ₂ + 4H ⁺ + 4e ⁻	1.23
O ₃ /O ₂ + 2H ⁺ + 2e ⁻ → O ₂ + H ₂ O	O ₂ + H ₂ O → O ₃ /O ₂ + 2H ⁺ + 2e ⁻	1.23
Br ₂ + 2e ⁻ → 2Br ⁻	2Br ⁻ → Br ₂ + 2e ⁻	1.07
NO ₃ ⁻ + 4H ⁺ + 3e ⁻ → NO + 2H ₂ O	NO + 2H ₂ O → NO ₃ ⁻ + 4H ⁺ + 3e ⁻	0.96
Ag ⁺ + e ⁻ → Ag	Ag → Ag ⁺ + e ⁻	0.80
I ₂ + 2e ⁻ → 2I ⁻	2I ⁻ → I ₂ + 2e ⁻	0.54
Cu ²⁺ + 2e ⁻ → Cu	Cu → Cu ²⁺ + 2e ⁻	0.52
O ₂ + 2H ₂ O + 4e ⁻ → 4OH ⁻	4OH ⁻ → O ₂ + 2H ₂ O + 4e ⁻	0.40
Cu ²⁺ + 2e ⁻ → Cu	Cu → Cu ²⁺ + 2e ⁻	0.34
2H ₂ O ₂ + 2e ⁻ → H ₂ + 2H ₂ O	H ₂ + 2H ₂ O → 2H ₂ O ₂ + 2e ⁻	0.00
Hg ²⁺ + 2e ⁻ → Hg	Hg → Hg ²⁺ + 2e ⁻	-0.85
Sn ⁴⁺ + 2e ⁻ → Sn ²⁺	Sn ²⁺ → Sn ⁴⁺ + 2e ⁻	-0.14
Sn ²⁺ + 2e ⁻ → Sn	Sn → Sn ²⁺ + 2e ⁻	-0.26
Fe ³⁺ + e ⁻ → Fe ²⁺	Fe ²⁺ → Fe ³⁺ + e ⁻	-0.45
Cr ³⁺ + 3e ⁻ → Cr	Cr → Cr ³⁺ + 3e ⁻	-0.74
Zn ²⁺ + 2e ⁻ → Zn	Zn → Zn ²⁺ + 2e ⁻	-0.76
2H ₂ O + 2e ⁻ → H ₂ + 2OH ⁻	H ₂ + 2OH ⁻ → 2H ₂ O + 2e ⁻	-0.83
Na ⁺ + e ⁻ → Na	Na → Na ⁺ + e ⁻	-1.18
K ⁺ + e ⁻ → K	K → K ⁺ + e ⁻	-1.80



Zumdahl Chemistry Chapter 17

Richard H. Langley, John Moore



Zumdahl Chemistry Chapter 17:

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 of 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

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