4) Oxidation-Reduction Reactions

Oxidation - is a <u>loss</u> of electrons - is an <u>decrease</u> in oxidation number

Reduction - is a gain of electrons
- is a decreas in oxidation number

Oxidizing Agent - brings about the oxidation of another species

Reducing Agent- brings about the reduction of another species causes something else to gain electrons by losing electrons itself (Is Oxidized)

→ OIL RIG (Qxidation Is Loss; Reduction Is Gain)
LEO~GER (Lose Electrons Qxidation ~ Gain Electrons Reduction)

Memorize common oxidizing pathways (reducing goes backward)

- 1. Metal → metal ion
- Metal → metallous ion → metallic ion
- 3. Halide ion halogen halite ion halate ion (similar for No. No.)

Memorize common oxidizing / reducing agents (see bright orange sheet)

Ex. MnO₄ → Mn (acidified solution)

Ex. MnO₄ → Mn²⁺ (acidified solution)

MnO₄ → MnO₅ (basic solution)

Cr₂O₇²⁻ → Cr³⁺ (acidified solution)

Cr₂O₇² → Cr³⁺ (acidified solution)
===Identify the substances being oxidized and reduced in each of the following ====

A) I₂ + IO₃ + H⁺ ---> I⁺ + H₂O

Oxidation Numbering Problems And Answers

IM Harris

Oxidation Numbering Problems And Answers:

Survival Guide to General Chemistry Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields Concepts And Problems In Physical Chemistry P.S. Raghavan, 1997 Contents Introduction Atoms Molecules and Formulas Chemical Equations and Stoichiometry Aqueous Reactions and Solution Stoichiometry Gases Intermolecular Forces Liquids and Solids Atoms Structure and the Periodic Table Chemical Bonding Chemical Thermodynamics Solutions Chemical Kinetics Chemical Equilibrium Acids and Bases Ionic Equilibria I Ionic Arshad Iqbal, The Class 8 12 Chemistry Quiz Questions and Answers PDF Grade 8 12 Chemistry Competitive Exam Ouestions Chapter 1 15 Practice Tests Chemistry Textbook Questions for Beginners includes Questions to solve problems with hundreds of class questions Class 8 12 Chemistry Questions and Answers PDF book covers basic concepts and analytical assessment tests Class 8 12 Chemistry Quiz PDF book helps to practice test questions from exam prep notes The Grade 8 12 Chemistry Quiz Questions and Answers PDF eBook includes Practice material with verbal quantitative and analytical past papers questions Class 8 12 Chemistry Questions and Answers PDF Free download chapter 1 a book to review textbook questions on chapters Molecular structure acids and bases atomic structure bonding chemical equations descriptive chemistry equilibrium systems gases laboratory liquids and solids mole concept oxidation reduction rates of reactions solutions thermochemistry Questions for high school and college revision questions Chemistry Interview Questions and Answers PDF Download free eBook's sample covers beginner's solved questions textbook's study notes to practice online tests. The Grade 8 12 Chemistry Interview Questions Chapter 1 15 PDF book includes high school workbook questions to practice Questions for exam Chemistry Practice Tests a textbook s revision guide with chapters Questions for NEET MCAT GRE GMAT SAT ACT

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