

Identifying Oxidation-Reduction Reactions

When chemical bonds form, electrons are either lost, gained or shared. Metals lose electrons. This is what happens when iron rusts. When the iron, a metal, combines with oxygen, a non metal, to form rust, it loses electrons. This process is called oxidation even when the nonmetal is not oxygen. Nonmetals gain electrons causing their oxidation states to go down. This is called reduction. It is possible to tell what was oxidized and what was reduced in a chemical reaction by checking the oxidation states of the elements before and after the reaction. The element that has an increase in oxidation state was oxidized while the one that has a decrease in oxidation state was reduced.



Example:



For each of the examples below, determine the oxidation states of the elements on both sides of the equations. Then determine which element was oxidized and which was reduced. Write your answer in the space provided.

Reaction	Element:	
	Oxidized	Reduced
Example: $\text{Cu} + 2\text{AgNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + 2\text{Ag}$		
$\overset{0}{\text{Cu}} + 2\overset{+1}{\text{Ag}}\overset{0}{\text{NO}_3} \rightarrow \overset{+2}{\text{Cu}}(\overset{+5}{\text{NO}}_3)_2 + 2\overset{0}{\text{Ag}}$	Cu	Ag
1. $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$		
2. $2\text{Zn} + 2\text{HCl} \rightarrow 2\text{ZnCl}_2 + \text{H}_2$		
3. $\text{Fe}_3\text{O}_4 + 3\text{CO} \rightarrow 3\text{Fe} + 3\text{CO}_2$		
4. $2\text{K}_3\text{Cr}_2\text{O}_7 + 2\text{H}_2\text{O} + 3\text{S} \rightarrow 4\text{KOH} + 2\text{Cr}_2\text{O}_5 + 3\text{SO}_2$		

Analyzing Oxidation Reduction Reactions Answer Key

Raymond Chang

Analyzing Oxidation Reduction Reactions Answer Key:

A text book of PHARMACEUTICAL ANALYSIS-I Dr. Alok kumar Dash,2025-06-03 A Pharmaceutical Analysis 1 Theory Practical textbook for B Pharm first semester focuses on the fundamental principles and techniques used to analyze pharmaceutical drugs ensuring their purity quality and safety The book typically covers topics like titration methods qualitative and quantitative analysis and the basics of analytical instrumentation as mandated by the Pharmacy Council of India PCI regulations It aims to provide students with a strong foundation in analytical chemistry relevant to the pharmaceutical industry **CliffsNotes AP Chemistry** Bobrow Test Preparation Services,2009-02-09 The book itself contains chapter length subject reviews on every subject tested on the AP Chemistry exam as well as both sample multiple choice and free response questions at each chapter's end Two full length practice tests with detailed answer explanations are included in the book **Laboratory Manual for Principles of General Chemistry** Jo Allan Beran,2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures *Holt Chemistry* Ralph Thomas Myers,2004 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),1981 A System of Instruction in Quantitative Chemical Analysis C. Remigius Fresenius,1894 **A System of Instruction in Quantitative Chemical Analysis** Karl Remigius Fresenius,1882 *NBS Special Publication* ,1968 The Students' Guide in Quantitative Analysis Henry Carrington Bolton,1881 **A Systematic Handbook of Volumetric Analysis** Francis Sutton,1890 *Chemistry* Steven S. Zumdahl,1989 *Review of Metal Literature* American Society for Metals,1966 *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards,1980 **Journal of Chemical Education** ,1927 **Textbook of Macro and Semimicro Qualitative Inorganic Analysis** Arthur Israel Vogel,G. Svehla,1987 Originally written in 1937 this edition contains several new features including marginal notes highlighting facts and summarizing reactions extended chapters on preliminary tests dissolution and fusion of samples and updated nomenclature Metallurgical Analysis Nathaniel Wright Lord,Dana James Demorest,1924 *Flavor Analysis* Cynthia J. Mussinan,Michael J. Morello,1998 Filled with practical examples this volume illustrates innovative flavor analysis techniques used by today's leaders in food chemistry It covers flavor analysis for apples beef citrus coffee cheese extruded pet foods fungi milk and Maillard reaction systems and the researchers come from throughout the industrialized world Eleven of the chapters illustrate techniques for isolating volatile compounds from complex food matrices including micro scale liquid liquid extraction headspace sampling solid phase microextraction supercritical fluid extraction and thermo desorption The chapters devoted to analytical characterization include analyses of Amadori compounds sulfur compounds chiral compounds

coumarins and psoralens flavor precursors and natural products by GC GC MS HPLC MS CCC countercurrent chromatography and GC IRMS gas chromatography isotope ration mass spectrometry The final section covers sensory characterization and describes examples using the gas chromatography olfactory techniques OSME and AEDA as well as the new GC SOMMSA selective odorant measurement by multisensor array **General Chemistry** Raymond Chang,2003

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