

Chapter 15

Oxidation-Reduction Reactions

SECTION 1

Transfer electrons across the following equations for the species indicated.

1. _____ Add the following species to complete each redox equation.
- For $\text{Cr}^{3+} \rightarrow \text{Cr}^{6+}$ in $\text{Cr}^{3+} + \text{H}_2\text{O}_2 \rightarrow \text{Cr}^{6+} + \text{H}_2\text{O}$
- For $\text{Mn}^{2+} \rightarrow \text{Mn}^{4+}$ in $\text{Mn}^{2+} + \text{H}_2\text{O}_2 \rightarrow \text{Mn}^{4+} + \text{H}_2\text{O}$

2. Assign the correct oxidation number to the indicated atom in each below.

100. _____ a. Fe in FeCl_3
101. _____ b. S in SO_2
102. _____ c. Cl in NaClO_2
103. _____ d. S in H_2SO_4
104. _____ e. Cl in HClO_2
105. _____ f. Fe in FeSO_4
106. _____ g. Mn in KMnO_4

3. In each of the following half-reactions, determine the electron

107. _____ a. $\text{Fe}^{3+} \rightarrow \text{Fe}^{2+}$
108. _____ b. $\text{SO}_4^{2-} \rightarrow \text{SO}_2$
109. _____ c. $\text{BrO}_3^- \rightarrow \text{Br}^-$

110. _____ d. Assign it then show half-reactions assigned oxidation numbers.

4. Name compounds other than those listed in Figure 5.1 of the text, for the following

elementary ions only.

111. _____ a. a compound containing 30% of an element mass
112. _____ b. a gas
113. _____ c. a gas that is not a noble gas
114. _____ d. a gas that is not a noble gas

Modern Chemistry Ch 19 Section Review 1

Arturo Cuomo



Modern Chemistry Ch 19 Section Review 1:

Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 *Modern Chemistry* H. Clark Metcalfe, Joseph F. Castka, 1966 Introduction to Modern Inorganic Chemistry, 6th edition R.A. Mackay, 2017-12-21 This popular and comprehensive textbook provides all the basic information on inorganic chemistry that undergraduates need to know For this sixth edition the contents have undergone a complete revision to reflect progress in areas of research new and modified techniques and their applications and use of software packages Introduction to Modern Inorganic Chemistry begins by explaining the electronic structure and properties of atoms then describes the principles of bonding in diatomic and polyatomic covalent molecules the solid state and solution chemistry Further on in the book the general properties of the periodic table are studied along with specific elements and groups such as hydrogen the s elements the lanthanides the actinides the transition metals and the p block Simple and advanced examples are mixed throughout to increase the depth of students understanding This edition has a completely new layout including revised artwork case study boxes technical notes and examples All of the problems have been revised and extended and include notes to assist with approaches and solutions It is an excellent tool to help students see how inorganic chemistry applies to medicine the environment and biological topics

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The Athenaeum, 1913

Modern Biocatalysis Gavin Williams, Mélanie Hall, 2018-05-31 The synergy between synthetic biology and biocatalysis is emerging as an important trend for future sustainable processes This book reviews all modern and novel techniques successfully implemented in biocatalysis in an effort to provide better performing enzymatic systems and novel biosynthetic routes to non natural products This includes the use of molecular techniques in protein design and engineering construction of artificial metabolic pathways and application of computational methods for enzyme discovery and design Stress is placed on current hot topics in biocatalysis where recent advances in research are defining new grounds in enzyme catalyzed processes With contributions from leading academics around the world this book makes a ground breaking contribution to this progressive field and is essential reading for graduates and researchers investigating bio catalysis enzyme engineering chemical biology and synthetic biology

Solutions Guide for Introductory Chemistry James F. Hall, 1996

Organic Chemistry Pierre Vogel, Kendall N. Houk, 2019-10-07 Provides the background tools and models required to understand organic synthesis and plan chemical reactions more efficiently Knowledge of physical chemistry is essential for achieving successful chemical reactions in organic chemistry Chemists must be competent in a range of areas to understand organic synthesis Organic Chemistry provides the methods models and tools necessary to fully comprehend organic reactions Written by two internationally recognized experts in the field this much needed textbook fills a gap in current literature on physical organic chemistry Rigorous yet straightforward chapters first examine chemical equilibria thermodynamics reaction rates and mechanisms and molecular orbital theory providing readers with a strong foundation in physical organic chemistry Subsequent chapters demonstrate various reactions involving organic organometallic and biochemical reactants and catalysts Throughout the text numerous questions and exercises over 800 in total help readers strengthen their comprehension of the subject and highlight key points

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Athenaeum and Literary Chronicle ,1842

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