

CHAPTER

08

REDOX REACTION

- + The chemical reaction which contain oxidation as well as reduction half reaction is called redox reaction.
- + An atom or ion or molecule which undergoes reduction (gain of electrons) is called oxidant (while an atom or molecule which undergoes oxidation) (loss of electrons) is called reductant.
- + Oxygen shows positive oxidation states (+1 and +2) only in OF_2 and O_2F_2 .
- + Maximum oxidation state of an element never more than its group number.
- + a) Oxidation state of Mn in $KMnO_4$ is +7.
b) Oxidation state of Cr in $K_2Cr_2O_7$ is +6.
c) Oxidation state of Cr in CrO_3 is +6.
- + a) Oxidation state of 'N' in N_3H is -1/3.
b) Oxidation state of 'N' in NH_4NO_3 (NH_4^+ and NO_3^-) are -3 and +5.
- + a) Oxidation state of 'Fe' in $FeSO_4$ is +2.
b) Oxidation state of 'Fe' in Fe_3O_4 is +8/3.
- + In $xMnO_4^- + yH_2O + zI^- \rightarrow 2MnO_2 + 8OH^- + 3I_2$
 $x = 2, y = 4, z = 6$
- + In reaction of $P_4 + xH_2O + yOH^- \rightarrow PH_3 + zH_2PO_2^-$
 $x = 3, y = 3, z = 3$ (i.e. $x = y = z$)
- + $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$ is an example for chemical combustion.
- + In all combustion reactions oxygen undergoes reduction (0 to -2).
- + In decomposition reaction chemical compound split into two or more simpler substances.
 $[2H_2O \rightarrow 2H_2 + O_2]$
- + In decomposition of $MgCO_3$, no changes in oxidation numbers. So it is not a redox reaction
 $[MgCO_3 \rightarrow MgO + CO_2]$
- + $Zn_{(s)} + CuSO_{4(aq)} \rightarrow ZnSO_{4(aq)} + Cu_{(s)}$ is a displacement reaction.
- + In disproportionation reaction the same element undergoes both oxidation and reduction simultaneously.
- + When Br_2 and I_2 dissolve in CCl_4 solvent to give reddish brown and purple colours respectively. So, they are detected by extracting into CCl_4 . This is also called "Layer Test".
- + Comproportion is a reverse of disproportionation reaction

Redox Reactions Chapter Study

N Colangelo



Redox Reactions Chapter Study:

CBSE Chemistry Chapterwise Case Study Class 11 Priti Singhal, 2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging **Know Your 'O' Level Chemistry - A Study Guide** , "O" Level Study Guide - Chemistry Quite Easily Done ,

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parts the first one deals with methodology of molecular simulations the second one with applications of molecular simulations the third one introduces bioinformatics methods and the use of experimental information in molecular simulations the last part reports on selected applications of molecular quantum mechanics This second edition has been thoroughly revised and updated to include the latest progresses made in the respective field of research *Study Guide to Accompany Calculus for the Management, Life, and Social Sciences* Clyde Metz, 1984-01-01 Study Guide to Accompany Calculus for the Management Life and Social Sciences *Class 9 Biology Questions and Answers PDF* Arshad Iqbal, The Class 9 Biology Quiz Questions and Answers PDF Grade 9 Biology Competitive Exam Questions Chapter 1 9 Practice Tests Class 9 Biology Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 9 Biology Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 9 Biology Quiz PDF book helps to practice test questions from exam prep notes The Grade 9 Biology Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 9 Biology Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Biodiversity bioenergetics biology problems cell cycle cells and tissues enzymes introduction to biology nutrition transport tests for school and college revision guide Biology Interview Questions and Answers PDF Download free eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The Class 9 Biology Interview Questions Chapter 1 9 PDF book includes high school question papers to review practice tests for exams Class 9 Biology Practice Tests a textbook s revision guide with chapters tests for NEET MCAT MDCAT SAT ACT competitive exam 9th Grade Biology Questions Bank Chapter 1 9 PDF book covers problem solving exam tests from biology textbook and practical eBook chapter wise as Chapter 1 Biodiversity Questions Chapter 2 Bioenergetics Questions Chapter 3 Biology Problems Questions Chapter 4 Cell Cycle Questions Chapter 5 Cells and Tissues Questions Chapter 6 Enzymes Questions Chapter 7 Introduction to Biology Questions Chapter 8 Nutrition Questions Chapter 9 Transport Questions The Biodiversity Quiz Questions PDF e Book Chapter 1 interview questions and answers on Biodiversity conservation of biodiversity biodiversity classification loss and conservation of biodiversity binomial nomenclature classification system five kingdom kingdom Animalia kingdom plantae and kingdom protista The Bioenergetics Quiz Questions PDF e Book Chapter 2 interview questions and answers on Bioenergetics and ATP aerobic and anaerobic respiration respiration ATP cells energy currency energy budget of respiration limiting factors of photosynthesis mechanism of photosynthesis microorganisms oxidation reduction reactions photosynthesis process pyruvic acid and redox reaction The Biology Problems Quiz Questions PDF e Book Chapter 3 interview questions and answers on Biological method biological problems biological science biological solutions solving biology problems The Cell Cycle Quiz Questions PDF e Book Chapter 4 interview questions and answers on Cell cycle chromosomes meiosis phases of meiosis mitosis significance of mitosis apoptosis and necrosis The Cells and Tissues Quiz Questions PDF e Book Chapter 5 interview

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Chemistry, Student Study Guide

James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

Student Study Guide to accompany Chemistry Martin Silberberg, Libby Weberg, 2005-01-06 *Kinetic Studies in GeO₂/Ge System* Sheng-Kai Wang, 2022-06-13 Kinetic Studies in GeO₂ Ge System A Retrospective from 2021 investigates reaction kinetics in GeO₂ Ge systems aiming to demonstrate the fundamentals of the GeO₂ Ge interface and to give insight into the distinctive features and performance of Ge germanium applied to advanced complementary metal oxide semiconductor CMOS devices This book first reviews the development of MOS technology and discusses the potentials of emerging Ge and the challenges facing it as a contentious channel material once promising to replace Si silicon for advanced nodes The study systematically analyzes the following aspects of GeO₂ Ge stacks that will shed light on the characteristics

and reaction principles of the system GeO₂/Ge degradation/Ge passivation techniques/desorption kinetics of GeO from GeO₂/Ge the relationship between GeO₂ crystallization and GeO₂/Ge interface reaction and the oxidation kinetics of Ge Based on findings from the intrinsic properties of GeO₂/Ge the author also compares it with prevalent SiO₂/Si systems and demonstrates the essential differences between the two contributing to quality control process optimization and technology advancements of GeO₂/Ge The book will be a useful reference for researchers/professionals and students interested in

electronic materials/condenser matter physics/microelectronic engineering and semiconductors **Ebook: Chemistry: The Molecular Nature of Matter and Change** Silberberg, 2015-01-16 **Ebook Chemistry: The Molecular Nature of Matter and Change** **Methods for Studying Nucleic Acid/Drug Interactions** Meni Wanunu, Yitzhak Tor, 2016-04-19 Since most

therapeutic efforts have been predominantly focused on pharmaceuticals that target proteins there is an unmet need to develop drugs that intercept cellular pathways that critically involve nucleic acids Progress in the discovery of nucleic acid binding drugs naturally relies on the availability of analytical methods that assess the eff *Undergraduate Instrumental Analysis* Thomas J. Bruno, James W. Robinson, George M. Frame II, Eileen M. Skelly Frame, 2023-07-31 Analytical

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resources We have also included many government websites and a discussion of resources available from National Measurement Laboratories in all industrialized countries Students are introduced to standard methods and protocols developed by regulatory agencies and consensus standards organizations in this context as well **Charged Particle and Photon Interactions with Matter** Yoshihiko Hatano, Yosuke Katsumura, A. Mozumder, 2010-12-13 Building on Mozumder's and Hatano's Charged Particle and Photon Interactions with Matter Chemical Physicochemical and Biological Consequences with Applications CRC Press 2004 Charged Particle and Photon Interactions with Matter Recent Advances Applications and Interfaces expands upon the scientific contents of the previous volume by covering Energy And Life John

Wigglesworth, 1997-07-02 Energy and Life addresses the subject of energy in biological systems It concentrates on the way in which energy flows through plants animals and bacteria drives the primary processes of life such as metabolism movement and ion transport It deals with living systems from a whole body approach for example in starvation and obesity to the cell

A Study of Enzymes, Volume II Stephen A. Kuby, 2024-12-20 This comprehensive monograph consists of two parts Volume I entitled Enzyme Catalysis Kinetics and Substrate Binding and Volume II entitled Mechanism of Enzyme Action Volume I focuses on several aspects of enzyme catalytic behavior their steady state and transient state kinetics and the thermodynamic properties of substrate binding Packed with figures tables schemes and photographs this volume contains over 1 000 references including references regarding enzymology's fascinating history This comprehensive book is of particular interest to enzymology students teachers and researchers Volume II presents selected cutting edge examples of techniques and approaches being pursued in biochemistry This up to date resource includes 11 chapters which illustrate important theoretical and practical aspects of enzyme mechanisms It also features selected examples in which today's most important techniques ideas and theories are used to elaborate on the intricate nature of enzyme action mechanisms This particular volume provides important information for both the novice and the seasoned investigator **Investigating Chemistry**

Matthew Johll, 2008-12-22 In its new second edition Investigating Chemistry A Forensic Science Perspective remains the only book that uses the inherently fascinating topics of crime and criminal investigations as a context for teaching the fundamental chemical concepts most often covered in an introductory nonmajors course Covering all the standard topics Matthew Johll capitalizes on the surge of interest in the scientific investigation of crime as sparked by CSI and other television shows bringing together the theme of forensic science and the fundamentals of chemistry in ways that are effective and accessible for students This edition features refined explanations of the chemical concepts which are the core of the book as well as a more thoroughly integrated forensic theme updated features and an expanded media supplements package

Fundamentals of Environmental Sampling and Analysis Chunlong Zhang, 2024-02-29 Fundamentals of Environmental Sampling and Analysis A fully reworked and updated introduction to the fundamentals and applications of environmental sampling and analysis Environmental sampling and analysis are essential components of environmental data acquisition and

scientific research The acquisition of reliable data with respect to proper sampling chemical and instrumental methodology and QA QC is a critical precursor to all environmental work No would be environmental scientist engineer or policymaker can succeed without an understanding of how to correctly acquire assess and use credible data Fundamentals of Environmental Sampling and Analysis 2nd edition provides this understanding with a comprehensive survey of the theory and applications of these critical sampling and analytical tools The field of environmental research has expanded greatly since the publication of the first edition and this book has been completely rewritten to reflect the latest studies and technological developments The resulting mix of theory and practice will continue to serve as the standard introduction to the subject Readers of the second edition of Fundamentals of Environmental Sampling and Analysis will also find Three new chapters and numerous expanded sections on topics of emerging environmental concerns Detailed discussion of subjects including passive sampling Raman spectroscopy non targeted mass spectroscopic analysis and many more Over 500 sample problems and solutions along with other supplementary instructional materials Fundamentals of Environmental Sampling and Analysis is ideal for students of environmental science and engineering as well as professionals and regulators for whom reliable environmental data through sampling and analysis is critical

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 pass myapp1

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