

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

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Redox Reactions Chapter Study:

Know Your 'O' Level Chemistry - A Study Guide , *"O" Level Study Guide - Chemistry Quite Easily Done* , CLASS 11 CHEMISTRY 5 SOLVED "CASE STUDIES" 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

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

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Computational Methods to Study the Structure and Dynamics of Biomolecules and Biomolecular Processes

Adam Liwo, 2018-12-19 This book provides a comprehensive overview of modern computer based techniques for analyzing the structure properties and dynamics of biomolecules and biomolecular processes It is organized in four main 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 *Ebook: Chemistry: The Molecular Nature of Matter and Change* Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change

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/condensed matter physics/microelectronic engineering and semiconductors

Undergraduate

Instrumental Analysis Thomas J. Bruno, James W. Robinson, George M. Frame II, Eileen M. Skelly Frame, 2023-07-31
Analytical instrumentation is crucial to research in molecular biology/medicine/geology/food science/materials science/forensics and many other fields Undergraduate Instrumental Analysis 8th Edition provides the reader with an understanding of all major instrumental analyses and is unique in that it starts with the fundamental principles and then develops the level of sophistication that is needed to make each method a workable tool for the student Each chapter includes a discussion of the fundamental principles underlying each technique/detailed descriptions of the instrumentation and a large number of applications Each chapter includes an updated bibliography and problems and most chapters have suggested experiments appropriate to the technique This edition has been completely updated/revised and expanded The order of presentation has been changed from the 7th edition in that after the introduction to spectroscopy UV-Vis is discussed This order is more in keeping with the preference of most instructors Naturally once the fundamentals are introduced instructors are free to change the order of presentation Mathematics beyond algebra is kept to a minimum but for the interested student in this edition we provide an expanded discussion of measurement uncertainty that uses elementary calculus although a formula approach can be used with no loss of context Unique among all instrumental analysis texts we explicitly discuss safety up front in Chapter 2 The presentation intentionally avoids a finger wagging/thou shalt not approach in favor of a how-to discussion of good laboratory and industrial practice It is focused on hazards and remedies that might be encountered in the use of instrumentation Among the new topics introduced in this edition are Photoacoustic spectroscopy/Cryogenic NMR probes and actively shielded magnets The nature of mixtures in the context of separations/Troubleshooting and leaks in high vacuum systems such as mass spectrometers/Instrumentation laboratory safety/Standard reference materials and standard reference data In addition the authors have included many instrument manufacturer's websites which contain extensive 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

Chemical Education: Towards Research-based Practice J.K. Gilbert, Onno de Jong, Rosária Justi, David F. Treagust, Jan H. van Driel, 2006-03-11
Chemical education is essential to everybody because it deals with ideas that play major roles in personal/social and

economic decisions This book is based on three principles that all aspects of chemical education should be associated with research that the development of opportunities for chemical education should be both a continuous process and be linked to research and that the professional development of all those associated with chemical education should make extensive and diverse use of that research It is intended for pre service and practising chemistry teachers and lecturers chemistry teacher educators chemical education researchers the designers and managers of formal chemical curricula informal chemical educators authors of textbooks and curriculum support materials practising chemists and chemical technologists It addresses the relation between chemistry and chemical education curricula for chemical education teaching and learning about chemical compounds and chemical change the development of teachers the development of chemical education as a field of enquiry This is mainly done in respect of the full range of formal education contexts schools universities vocational colleges but also in respect of informal education contexts books science centres and museums

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Environmental Isotope Geochemistry Mark Baskaran, 2011-10-13 Applications of radioactive and stable isotopes have revolutionized our understanding of the Earth and near earth surface processes The utility of the isotopes are ever increasing and our sole focus is to bring out the applications of these isotopes as tracers and chronometers to a wider audience so that they can be used as powerful tools to solve environmental problems New developments in this field remain mostly in peer reviewed journal articles and hence our goal is to synthesize these findings for easy reference for students faculty regulators in governmental and non governmental agencies and environmental companies While this volume maintains its rigor in terms of its depth of knowledge and quantitative information it contains the breadth needed for wide variety problems and applications in the environmental sciences This volume presents all of the newer and older applications of isotopes pertaining to the environmental problems in one place that is readily accessible to readers This book not only has the depth and rigor that is needed for academia but it has the breadth and case studies to illustrate the utility of the isotopes in a wide variety of environments atmosphere oceans lakes rivers and streams terrestrial environments and sub surface environments and serves a large audience from students and researchers regulators in federal state and local governments and environmental companies Student Study Guide to accompany Chemistry Martin Silberberg, Libby Weberg, 2005-01-06 *A Study of*

Enzymes Stephen A. Kuby, 1990-11-16 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 Barron's Science 360: A Complete Study Guide to Chemistry with Online Practice Barron's Educational Series, Mark Kernion, Joseph A. Mascetta, 2021-09-07 provides a complete guide to the fundamentals of chemistry Page 4 of cover **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 *Learning with Understanding in the Chemistry Classroom* Iztok Devetak, Saša Aleksij Glažar, 2014-01-14 This volume offers a critical examination of a variety of conceptual approaches to teaching and learning chemistry in the school classroom Presenting up to date research and theory and featuring contributions by respected academics on several continents it explores ways of making knowledge meaningful and relevant to students as well as strategies for effectively communicating the core concepts essential for developing a robust understanding of the subject Structured in three sections the contents deal first with teaching and learning chemistry discussing general issues and pedagogical strategies using macro sub micro and symbolic representations of chemical concepts Researchers also describe new and productive teaching strategies The second section examines specific approaches that foster learning with understanding focusing on techniques such as cooperative learning presentations laboratory activities multimedia simulations and role playing in forensic chemistry classes The final part of the book details learner centered active chemistry learning methods active computer aided learning and trainee chemistry teachers use of student centered learning during their pre service education Comprehensive and highly relevant this new publication makes a significant contribution to the continuing task of making chemistry classes engaging and effective **Mechanisms of**

Reactions of Metal Complexes in Solution Debabrata Banerjea, M K Bharty, 2022-09-21 Reaction Mechanisms of Metal Complexes in Solution provides a comprehensive overview of an often overlooked research area. Despite its importance and recent reshaping of the field, many inorganic chemists have lost an appreciation for the significance of stability constants and the thermodynamic aspects of complex formation. Ideal for newcomers and established researchers in the field, this book is a complete treatment of the area, covering advanced topics with relevance to biomedical applications, extraction metallurgy, food chemistry, and a wealth of other industrial processes and research areas. The book will be of particular interest to postgraduates with an interest in coordination chemistry, catalysis, supramolecular chemistry, metallobiology, and related aspects of biochemistry.

Redox Reactions Chapter Study Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Redox Reactions Chapter Study**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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