

Oxidation-Reduction Worksheet

For each reaction below, identify the atom oxidized, the atom reduced, the oxidizing agent, the reducing agent, the oxidation half reaction, the reduction half reaction, and then balance the equation by the method of oxidation-reduction showing all electrons transfers.

1. $\overset{0}{\text{Mg}} + 2\overset{+1}{\text{H}}\overset{-1}{\text{Cl}} \rightarrow \overset{+2}{\text{Mg}}\overset{-2}{\text{Cl}}_2 + \overset{0}{\text{H}}_2$ $\overset{0}{\text{Mg}} \xrightarrow{-2e^-} \overset{+2}{\text{Mg}}$ $2\overset{+1}{\text{H}} \xrightarrow{+2e^-} \overset{0}{\text{H}}_2$
2. $2\overset{0}{\text{Fe}} + 3\overset{+3}{\text{V}}_2\overset{-2}{\text{O}}_3 \rightarrow \overset{+3}{\text{Fe}}_2\overset{-2}{\text{O}}_3 + 6\overset{+2}{\text{V}}\overset{-2}{\text{O}}$ $2\overset{0}{\text{Fe}} \xrightarrow{-6e^-} \overset{+3}{\text{Fe}}_2$ $3\overset{+3}{\text{V}}_2 \xrightarrow{+6e^-} 6\overset{+2}{\text{V}}$
3. $\overset{+7}{\text{K}}\overset{-2}{\text{Mn}}\overset{-1}{\text{O}}_4 + \overset{+5}{\text{K}}\overset{-2}{\text{N}}\overset{-1}{\text{O}}_2 + 2\overset{+2}{\text{H}}_2\overset{-2}{\text{S}}\overset{-1}{\text{O}}_4 \rightarrow \overset{+2}{\text{Mn}}\overset{-2}{\text{S}}\overset{-1}{\text{O}}_4 + 2\overset{+2}{\text{H}}_2\overset{-2}{\text{O}} + \overset{+5}{\text{K}}\overset{-2}{\text{N}}\overset{-1}{\text{O}}_3 + \overset{+6}{\text{K}}_2\overset{-2}{\text{S}}\overset{-1}{\text{O}}_4$
4. $\text{K}_2\text{Cr}_2\text{O}_7 + \text{SnCl}_2 + \text{HCl} \rightarrow \text{CrCl}_3 + \text{SnCl}_4 + \text{KCl} + \text{H}_2\text{O}$
5. $\text{KMnO}_4 + \text{NaCl} + \text{H}_2\text{SO}_4 \rightarrow \text{Cl}_2 + \text{K}_2\text{SO}_4 + \text{MnSO}_4 + \text{H}_2\text{O} + \text{Na}_2\text{SO}_4$
6. $\text{K}_2\text{Cr}_2\text{O}_7 + \text{H}_2\text{O} + \text{S} \rightarrow \text{SO}_2 + \text{KOH} + \text{Cr}_2\text{O}_3$
7. $\text{KClO}_3 + \text{C}_{12}\text{H}_{22}\text{O}_{11} \rightarrow \text{KCl} + \text{H}_2\text{O} + \text{CO}_2$
8. $\text{H}_2\text{C}_2\text{O}_4 + \text{K}_2\text{MnO}_4 \rightarrow \text{CO}_2 + \text{K}_2\text{O} + \text{Mn}_2\text{O}_3 + \text{H}_2\text{O}$
9. $\text{Mn}(\text{NO}_3)_2 + \text{NaBiO}_3 + \text{HNO}_3 \rightarrow \text{HMnO}_4 + \text{Bi}(\text{NO}_3)_3 + \text{NaNO}_3 + \text{H}_2\text{O}$
10. $\text{H}_2\text{C}_2\text{O}_4 + \text{KMnO}_4 \rightarrow \text{CO}_2 + \text{K}_2\text{O} + \text{Mn}_2\text{O}_3 + \text{H}_2\text{O}$

Homework Oxidation And Reduction Answer Key

Charles H. Corwin



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Organic Synthesis Michael Smith, 2016-11-22 Organic Synthesis Fourth Edition provides a reaction based approach to this important branch of organic chemistry Updated and accessible this eagerly awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels to provide them with critical working knowledge of basic reactions stereochemistry and conformational principles This reliable resource uniquely incorporates molecular modeling content problems and visualizations and includes reaction examples and homework problems drawn from the latest in the current literature In the Fourth Edition the organization of the book has been improved to better serve students and professors and accommodate important updates in the field The first chapter reviews basic retrosynthesis conformations and stereochemistry The next three chapters provide an introduction to and a review of functional group exchange reactions these are followed by chapters reviewing protecting groups oxidation and reduction reactions and reagents hydroboration selectivity in reactions A separate chapter discusses strategies of organic synthesis and the book then delves deeper in teaching the reactions required to actually complete a synthesis Carbon carbon bond formation reactions using both nucleophilic carbon reactions are presented and then electrophilic carbon reactions followed by pericyclic reactions and radical and carbene reactions The important organometallic reactions have been consolidated into a single chapter Finally the chapter on combinatorial chemistry has been removed from the strategies chapter and placed in a separate chapter along with valuable and forward looking content on green organic chemistry process chemistry and continuous flow chemistry Throughout the text Organic Synthesis Fourth Edition utilizes Spartan generated molecular models class tested content and useful pedagogical features to aid student study and retention including Chapter Review Questions and Homework Problems A full Solutions Manual is also available online for qualified instructors to support teaching Winner 2018 Textbook Excellence Award Texty from the Textbook and Academic Authors Association Fully revised and updated throughout and organized into 19 chapters for a more cogent and versatile presentation of concepts Includes reaction examples taken from literature research reported between 2010 2015 Features new full color art and new chapter content on process chemistry and green organic chemistry Offers valuable study and teaching tools including Chapter Review Questions and Homework Problems for students Solutions Manual for qualified course instructors **Chemistry Homework for OCR A for Double and Separate Awards** Gareth Pritchard, 2001 Homework activities for OCR A Chemistry specifications **Learning Chemistry 8 Solution Book (Year 2023-24)** , 2024-01-02 **Chemistry Homework** Frank Schaffer Publications, Joan DiStasio, 1996-03 Includes the periodic table writing formulas balancing equations stoichiometry problems and more Key Science for International Schools Eileen Ramsden, 1998 Includes a Teacher's Guide including teaching notes guidance on the range of activities for coursework equipment lists and answers to all questions Additional assessment to enrich extend and tailor the context of the Key Science textbooks for international schools A Mother Tongue

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Science Education Research and Practice in Asia-Pacific and Beyond Jennifer Yeo, Tang Wee Teo, Kok-Sing Tang, 2017-10-16 This book is based on presentations at the International Science Education Conference ISEC 2014 It showcases a selection of the best papers by researchers and science teachers from the Asia Pacific region North America and the United Kingdom Centered on the theme of Pushing the boundaries Investing in our future they pursue new ways of helping learners appreciate the diversity and changes in science that result from a globalised world facing complex and diverse environmental and technological issues The chapters touch on various themes in science education that explore and investigate issues of scientific literacy societal challenges and affect and teacher professional development Its comprehensive themes make it a valuable textbook for graduate students of master s and Ph D programs It also appeals to pre service and in service teachers as a resource on innovative pedagogical practices and creative methods of professional development With a selection that emphasises the research practice nexus in education research it serves as an introductory handbook for teachers to connect with the current issues facing science education

Physical Chemistry for Engineering and Applied Sciences Frank R. Foulkes, 2012-09-12 Physical Chemistry for Engineering and Applied Sciences is the product of over 30 years of teaching first year Physical Chemistry as part of the Faculty of Applied Science and Engineering at the University of Toronto Designed to be as rigorous as compatible with a first year student s ability to understand the text presents detailed step by step derivations of the equations that permit the student to follow the underlying logic and of equal importance to appreciate any simplifying assumptions made or mathematical tricks employed In addition to the 600 exercises and end of chapter problems the text is rich in worked non trivial examples many of which are designed to be inspiring and thought provoking Step by step derivation of all equations enables the student to smoothly follow the derivation by sight and can be understood relatively easily by students with moderate skills and backgrounds in mathematics Clear and accessible Physical Chemistry for Engineering and Applied Sciences includes The answers to all of the 112 worked examples 99 exercises following many of the worked examples and 496 end of chapter problems Topics not normally seen in introductory physical chemistry textbooks ionic reaction rates activities and activity coefficients or not regularly explained in much detail electrochemistry chemical kinetics with an eye on industrial applications Special appendices that provide detailed explanations of basic integration and natural logarithms for students lacking a background in integral calculus An in depth chapter on electrochemistry in which activities and activity

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Journal of Research of the National Bureau of Standards

United States. National Bureau of Standards,1968 *Natural and Artificial Photosynthesis* Reza Razeghi,2013-08-23

This technical book explores current and future applications of solar power as an unlimited source of energy that earth receives every day Photosynthetic organisms have learned to utilize this abundant source of energy by converting it into high energy biochemical compounds Inspired by the efficient conversion of solar energy into an electron flow attempts have been made to construct artificial photosynthetic systems capable of establishing a charge separation state for generating electricity or driving chemical reactions Another important aspect of photosynthesis is the CO₂ fixation and the production of high energy compounds Photosynthesis can produce biomass using solar energy while reducing the CO₂ level in air Biomass can be converted into biofuels such as biodiesel and bioethanol Under certain conditions photosynthetic organisms can also produce hydrogen gas which is one of the cleanest sources of energy *Biological Inorganic Chemistry* Ivano Bertini,Harry B. Gray,Edward Stiefel,Joan Valentine,2007-01-01 Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The long awaited text for 21st century courses in biological inorganic chemistry is now available Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The book has been extensively class tested at Princeton and UCLA and it includes tutorials in biology and biochemistry and in inorganic chemistry to aid students of varying backgrounds The main text is divided into two parts Part A Overviews of Biological Inorganic Chemistry sets forth the unifying principles of the field A full course in bioinorganic chemistry could be based entirely on this overview section which is a really a book within a book Part B Metal Ion Containing Biological Systems describes specific classes of systems in detail A special feature is the strong

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