

Chemical Reactions • Review and Reinforce

Describing Chemical Reactions

Understanding Main Ideas

Balance the equations on the lines below. State whether the reaction is a synthesis, decomposition, or replacement reaction.

Given Equation	Balanced Equation	Type of Reaction
1. $\text{FeS} + \text{HCl} \rightarrow \text{FeCl}_2 + \text{H}_2\text{S}$	a. _____	b. _____
2. $\text{Na} + \text{F}_2 \rightarrow \text{NaF}$	a. _____	b. _____
3. $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$	a. _____	b. _____

Answer questions 4 and 5 on a separate sheet of paper.

- Describe in words the chemical composition of the molecules involved and the reaction represented by the equation: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
- Use the principle of conservation of mass to explain why the equation in question 4 is balanced.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

_____ 6. chemical equation	a. substance present after a reaction
_____ 7. decomposition reaction	b. reaction in which substances combine to form a more complex compound
_____ 8. coefficient	c. uses symbols and formulas to show chemical reactions
_____ 9. product	d. reaction in which one element replaces another in a compound
_____ 10. reactant	e. substance present before a reaction
_____ 11. conservation of mass	f. number telling how many molecules of a substance are involved in a chemical reaction
_____ 12. synthesis reaction	g. reaction in which compounds are broken down into simpler products
_____ 13. replacement reaction	h. principle that states that matter is not created or destroyed during a chemical reaction

Section 1 2 Describing Chemical Reactions Review And Reinforce

Madhav Datta

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar.

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Prentice Hall Science Explorer: Teacher's ed ,2005 **Essentials of Chemical Reaction Engineering** H. Scott Fogler,2011 Accompanying DVD ROM contains many realistic interactive simulations *SAT Subject Test Chemistry* Joseph A. Mascetta,Mark Kernion,2020-12-01 The updated edition of Barron s SAT Subject Test Chemistry includes A full length diagnostic test with explained answers Four practice tests that reflect the actual SAT Subject Test Chemistry All questions answered and explained Detailed reviews covering all test topics Appendixes which include the Periodic Table important equation constant and data tables and a glossary of chemistry terms Both teachers and test taking students have praised earlier editions of this manual for its wealth of well organized detail Subject reviewed include the basics matter energy scientific method and measurements atomic structure and the periodic table bonding chemical formulas gases and laws stoichiometry liquids solids and phase changes chemical reactions and thermochemistry chemical reactions chemical equilibrium acids bases and salts oxidation reduction carbon and organic chemistry and the laboratory ONLINE PRACTICE TESTS Students who purchase this book or package will also get access to two additional full length online SAT Chemistry subject tests with all questions answered and explained **Matter** Prentice-Hall Staff,1994 Holt Chemistry Ralph Thomas Myers,2004 **Glencoe Science** McGraw-Hill Staff,2001-06 Prentice Hall Chemistry ,2000 *Focus on Physical Science* Annette Miele Saturnelli,1989 **Earth Science** ,2001 *Advanced Solid Catalysts for Renewable Energy Production* González-Cortés, Sergio,Imbert, Freddy Emilio,2018-01-19 In recent years the replacement of non renewable crude oil by renewable sources has been addressed particularly in developed countries Its main driving force has been the increasing demand and limited reserves of fossil fuels the greenhouse gas effect and the need of securing energy supplies Advanced Solid Catalysts for Renewable Energy Production provides emerging research on renewable energy production catalysts and environmental effects of increased productivity While highlighting the challenges for future generations to develop in the sustainable energy age readers will learn the importance of new approaches not only for synthesizing more active and selective nano catalysts but also for designing innovative catalytic processes that can eventually meet the growing energy efficiency demand and overcome the environmental issues This book is an important resource for academicians university researchers technology developers and graduate level students **Chemistry and Pharmacology of Naturally Occurring Bioactive Compounds** Goutam Brahmachari,2013-02-20 Natural products play crucial roles in modern drug development and constitute a prolific source of novel lead compounds or pharmacophores for ongoing drug discovery programs Chemistry and Pharmacology of Naturally Occurring Bioactive Compounds presents cutting edge research in the chemistry of bioactive natural products and demonstrates how natur *Focus on Earth Science* ,2001

Electrodissolution Processes Madhav Datta,2020-12-09 Electrodissolution Processes Fundamentals and Applications discusses the basic principles involved in high rate anodic dissolution processes and their application in advanced machining

micromachining and finishing operations The fundamentals section of the book discusses the anodic dissolution behavior of different classes of metals and the influence of mass transport current distribution and surface film properties on the metal removal rate and surface finishing The applications section of the book presents essential elements of electrochemical and assisted techniques for precision machining micromachining and polishing of advanced materials including hard to machine conducting ceramic materials Features A first of its kind book that provides updated scientific and engineering information related to high rate anodic dissolution processes Highlights the importance of the understanding of basic principles required for designing and optimizing ECM EMM EP processes Gives equal emphasis to the fundamentals and applications of electrodisolution processes Discusses the high rate anodic dissolution of two broad classes of materials namely engineering and refractory materials Presents case studies to demonstrate the capabilities of different electrochemical and assisted machining micromachining and finishing operations Presents a dedicated chapter on electrochemical planarization of copper interconnects Madhav Datta is the Chairman of Amrita Center for Industrial Research and Innovation and a Distinguished Professor in the Department of Chemical Engineering and Materials Science Amrita University Coimbatore India

Bioinspired Inorganic Materials Simon R Hall, 2019-08-23 The development of novel materials whose structure properties or function are inspired by nature or living matter is a wide and dynamically evolving field There is virtually no field of scientific endeavour that has not felt the touch of the bioinspired ethos Bioinspired Inorganic Materials provides an up to date review of the research with some historical context The emphasis throughout is on how bioinspiration is being used for cutting edge applications Chapters in the book cover big breakthroughs in bioinspiration for energy applications surface technology metamaterials and ceramics for regenerative medicine Edited and written by world renowned scientists this book will provide a comprehensive introduction for advanced undergraduates postgraduates and researchers wishing to learn about the topic Energy Research Abstracts ,1992-10 **Selected Water Resources Abstracts** ,1989 **American Architect and the Architectural Review** ,1903 **The ERIC Review** ,1991 Provides information on programs research publications and services of ERIC as well as critical and current education information **Lubricant Additives** Leslie R. Rudnick, 2017-07-12 This indispensable book describes lubricant additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry **Iron & Coal Trades Review** ,1928 Vol 115 includes Diamond jubilee issue 1867 1927

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