

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.

4. Describe in words the chemical composition of the molecules involved and the reaction represented by the equation: $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
5. 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 2 Describing Chemical Reactions Review And Reinforce

Kevin T. Patton



Section 2 Describing Chemical Reactions Review And Reinforce:

Prentice Hall Science Explorer Michael J. Padilla, 2002 *Chemical Matter* Prentice-Hall Staff, 1994 Authorized teaching resource in Alberta for senior high science 14 24 1995 2004 *Prentice Hall Exploring Life Science* Anthea Maton, 1997

Holt Chemistry Ralph Thomas Myers, 2004 **Prentice Hall Chemistry**, 2000 *Cells*, 1997 **Computational Materials Chemistry** L.A. Curtiss, M.S. Gordon, 2006-01-16 As a result of the advancements in algorithms and the huge increase in speed of computers over the past decade electronic structure calculations have evolved into a valuable tool for characterizing surface species and for elucidating the pathways for their formation and reactivity It is also now possible to calculate including electric field effects STM images for surface structures To date the calculation of such images has been dominated by density functional methods primarily because the computational cost of curate wave function based calculations using either realistic cluster or slab models would be prohibitive DFT calculations have proven especially valuable for elucidating chemical processes on silicon and other semiconductor surfaces However it is also clear that some of the systems to which DFT methods have been applied have large non dynamical correlation effects which may not be properly handled by the current generation of Kohn Sham based density functionals For example our CASSCF calculations on the Si 001 acetylene system reveal that at some geometries there is extensive 86 configuration mixing This in turn could signal problems for DFT cal lations on these systems Some of these problem systems can be addressed using ONIOM or other layering methods treating the primary region of interest with a CASMP2 or other multireference based method and treating the secondary region by a lower level of electronic structure theory or by use of a molecular mechanics method

ACKNOWLEDGEMENTS We wish to thank H J nsson C Sosa D Sorescu P Nachtigall and T C *Matter, Building Block of the Universe*, 1993 Charged Particle and Photon Interactions with Matter A. Mozumder, Yoshihiko Hatano, 2003-11-14

Charged Particle and Photon Interactions with Matter offers in depth perspectives on phenomena of ionization and excitation induced by charged particle and photon interactions with matter in vivo and in vitro This reference probes concepts not only in radiation and photochemistry but also in radiation physics radiation biochemistry and radiatio 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 natural product research continues to make significant contributions in the discovery and development of new medicinal entities In 21 chapters this book highlights chemistry and pharmaceutical potential of natural products in modern drug discovery processes and covers the synthesis and semi synthesis of potentially bioactive natural products Written for phytochemists synthetic chemists combinatorial chemists as well as other practitioners and students in related fields the book features chemical advances in naturally occurring

organic compounds and describes their chemical transformations and structure activity relationships **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 **Matter** Prentice-Hall Staff, 1994 **Glencoe Science** McGraw-Hill Staff, 2001-06 Prentice Hall Science Explorer: Teacher's ed ,2005 **Chemical Interactions** ,2005 **Distillation: Equipment and Processes** Andrzej Gorak, Zarko Olujic, 2014-06-24 **Distillation Equipment and Processes** winner of the 2015 PROSE Award in Chemistry Physics from the Association of American Publishers is a single source of authoritative information on all aspects of the theory and practice of modern distillation suitable for advanced students and professionals working in a laboratory industrial plants or a managerial capacity It addresses the most important and current research on industrial distillation including all steps in process design feasibility study modeling and experimental validation together with operation and control aspects This volume features an extra focus on distillation equipment and processes Winner of the 2015 PROSE Award in Chemistry Physics from the Association of American Publishers Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study Anatomy & Physiology (includes A&P Online course) E-Book Kevin T. Patton, 2018-01-31 **Anatomy Physiology** includes A P Online course E Book **Matter and Energy** ,2005 **Environmental Organic Chemistry** René P. Schwarzenbach, Philip M. Gschwend, Dieter M. Imboden, 2005-06-24 **Environmental Organic Chemistry** focuses on environmental factors that govern the processes that determine the fate of organic chemicals in natural and engineered systems The information discovered is then applied to quantitatively assessing the environmental behaviour of organic chemicals Now in its 2nd edition this book takes a more holistic view on physical chemical properties of organic compounds It includes new topics that address aspects of gas solid partitioning bioaccumulation and transformations in the atmosphere Structures chapters into basic and sophisticated sections Contains illustrative examples problems and case studies Examines the fundamental aspects of organic physical and inorganic chemistry applied to environmentally relevant problems Addresses problems and case studies in one volume **Human Biology and Health** ,1997

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