

Stoichiometry

Solve the following problems:

1. Four moles of iron (II) sulfide added to seven moles of oxygen, produced two moles of iron (III) oxide and four moles of sulfur dioxide. (20pts)

a) Translate the problem to chemical equation.



Reactant side

4 Fe atoms

4 S atoms

7(2) = 14 O atoms

Product side

4 Fe atoms

4 S atoms

2(3) + 4(2) = 14 O atoms

- b) How many grams of oxygen will react with 2.0 grams of iron (II) sulfide?

Given:

m FeS = 2.0 g

Req'd. = m O₂

Solution:

molar mass of FeS = 88 g/mol

mole ratio = 4 mol FeS: 7 mol O₂

molar mass of O₂ = 32 g/mol

$$m_{O_2} = 2.0 \cancel{g_{FeS}} \left(\frac{1 \cancel{mol_{FeS}}}{88 \cancel{g_{FeS}}} \right) \left(\frac{7 \cancel{mol_{O_2}}}{4 \cancel{mol_{FeS}}} \right) \left(\frac{32 \cancel{g_{O_2}}}{1 \cancel{mol_{O_2}}} \right) = 1.3 g_{O_2}$$

2. Rusting involves the reaction of iron, Fe with oxygen, O₂ to form iron (III) oxide, Fe₂O₃. (20pts)

a) Write the balanced chemical equation.



Reactant side

4 Fe atoms

3(2) = 6 O atoms

Product side

4 Fe atoms

2(3) = 6 O atoms

- b) What are the mole ratios of the product to each reactant and of the reactants to each other?

Reactant to each other:

4 mol Fe: 3 mol O₂

Product to each reactant:

2 mol Fe₂O₃: 4 mol Fe

Chemistry 1stoichiometry Test

Joseph A. Mascetta, Mark Kernion

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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Ozone in Drinking Water Treatment Kerwin L. Rakness, 2011-01-12 **The Cornell Chemist**, 1914 Biological Wastewater Treatment Mogens Henze, Mark C. M. van Loosdrecht, G. A. Ekama, Damir Brdjanovic, 2008-09-01 For information on the online course in Biological Wastewater Treatment from UNESCO IHE visit http://www.iwapublishing.co.uk/books/biological_wastewater_treatment_online_course_principles_modeling_and_design Over the past twenty years the knowledge and understanding of wastewater treatment have advanced extensively and moved away from empirically based approaches to a first principles approach embracing chemistry microbiology physical and bioprocess engineering and mathematics Many of these advances have matured to the degree that they have been codified into mathematical models for simulation with computers For a new generation of young scientists and engineers entering the wastewater treatment profession the quantity complexity and diversity of these new developments can be overwhelming particularly in developing countries where access is not readily available to advanced level tertiary education courses in wastewater treatment Biological Wastewater Treatment addresses this deficiency It assembles and integrates the postgraduate course material of a dozen or so professors from research groups around the world that have made significant contributions to the advances in wastewater treatment The book forms part of an internet based curriculum in biological wastewater treatment which also includes Summarized lecture handouts of the topics covered in book Filmed lectures by the author professors Tutorial exercises for students self learning Upon completion of this curriculum the modern approach of modelling and simulation to wastewater

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Table of Contents Chemistry 1stoichiometry Test

1. Understanding the eBook Chemistry 1stoichiometry Test
 - The Rise of Digital Reading Chemistry 1stoichiometry Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry 1stoichiometry Test
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chemistry 1stoichiometry Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry 1stoichiometry Test
 - Personalized Recommendations
 - Chemistry 1stoichiometry Test User Reviews and Ratings
 - Chemistry 1stoichiometry Test and Bestseller Lists
5. Accessing Chemistry 1stoichiometry Test Free and Paid eBooks

- Chemistry 1stoichiometry Test Public Domain eBooks
 - Chemistry 1stoichiometry Test eBook Subscription Services
 - Chemistry 1stoichiometry Test Budget-Friendly Options
6. Navigating Chemistry 1stoichiometry Test eBook Formats
 - ePub, PDF, MOBI, and More
 - Chemistry 1stoichiometry Test Compatibility with Devices
 - Chemistry 1stoichiometry Test Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chemistry 1stoichiometry Test
 - Highlighting and Note-Taking Chemistry 1stoichiometry Test
 - Interactive Elements Chemistry 1stoichiometry Test
 8. Staying Engaged with Chemistry 1stoichiometry Test
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chemistry 1stoichiometry Test
 9. Balancing eBooks and Physical Books Chemistry 1stoichiometry Test
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chemistry 1stoichiometry Test
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Chemistry 1stoichiometry Test
 - Setting Reading Goals Chemistry 1stoichiometry Test
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Chemistry 1stoichiometry Test
 - Fact-Checking eBook Content of Chemistry 1stoichiometry Test
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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