

## 12

## STOICHIOMETRY

## Practice Problems

In your notebook, solve the following problems.

## SECTION 12.1 THE ARITHMETIC OF EQUATIONS

Use the 3-step problem-solving approach you learned in Chapter 1.

1. An apple pie needs 10 large apples, 2 cups (top and bottom), and 1 tablespoon of cinnamon. Write a balanced equation that fits this situation. How many apples are needed to make 20 pies?
2. Two moles of potassium chloride and three moles of oxygen are produced from the decomposition of two moles of potassium chlorate,  $\text{KClO}_3$ . Write the balanced equation. How many moles of oxygen are produced from 12 moles of potassium chlorate?
3. Using the equation from problem 2, how many moles of oxygen are produced from 14 moles of potassium chlorate?
4. Two molecules of hydrogen react with one molecule of oxygen to produce two molecules of water. How many molecules of water are produced from  $3.8 \times 10^{22}$  molecules of oxygen? How many moles of water are produced from 22.5 moles of oxygen?

## SECTION 12.2 CHEMICAL CALCULATIONS

1. Calculate the number of moles of hydrogen chloride produced from 10 moles of hydrogen.



2. Calculate the number of moles of chlorine needed to form 14 moles of iron(III) chloride.



3. Calculate the number of grams of nitrogen dioxide that are produced from 4 moles of nitric oxide.



4. Calculate the mass of oxygen produced from the decomposition of 15.0 g of potassium chlorate.



5. Calculate the mass of silver needed to react with chlorine to produce 94 g of silver chloride. (Write a balanced equation first.)

6. How many liters of carbon monoxide at STP are needed to react with 4.00 g of oxygen gas to produce carbon dioxide?



7. Calculate the number of liters of oxygen gas needed to produce 15.0 liters of nitrogen dioxide. Assume all gases are at the same conditions of temperature and pressure.



# Chapter 12 Stoichiometry Core Teaching Resources

**Alexandre C. Dimian**



## Chapter 12 Stoichiometry Core Teaching Resources:

**Teaching Science for Understanding** James Joseph Gallagher, 2007 Offers middle and high school science teachers practical advice on how they can teach their students key concepts while building their understanding of the subject through various levels of learning activities

**Prentice Hall Chemistry**, 2000

**The Colorado School of Mines Magazine**, 1928

*Colorado School of Mines Magazine*, 1928

**Integrated Design and Simulation of Chemical Processes** Alexandre C. Dimian, 2003-05-13 This title aims to teach how to invent optimal and sustainable chemical processes by making use of systematic conceptual methods and computer simulation techniques The material covers five sections process simulation thermodynamic methods process synthesis process integration and design project including case studies It is primarily intended as a teaching support for undergraduate and postgraduate students following various process design courses and projects but will also be of great value to professional engineers interested in the newest design methods Provides an introduction to the newest design methods Of great value to undergraduate and postgraduate students as well as professional engineers Numerous examples illustrate theoretical principles and design issues

*One Hundred Years of Chemical Engineering* Nicholas A. Peppas, 2012-12-06 One hundred years ago in September 1888 Professor Lewis Mills Norton 1855 1893 of the Chemistry Department of the Massachusetts Institute of Technology introduced to the curriculum a course on industrial chemical practice This was the first structured course in chemical engineering taught in a University Ten years later Norton's successor Frank H Thorpe published the first textbook in chemical engineering entitled *Outlines of Industrial Chemistry* Over the years chemical engineering developed from a simple industrial chemical analysis of processes into a mature field The volume presented here includes most of the commissioned and contributed papers presented at the American Chemical Society Symposium celebrating the centenary of chemical engineering The contributions are presented in a logical way starting first with the history of chemical engineering followed by analyses of various fields of chemical engineering and concluding with the history of various U S and European Departments of Chemical Engineering I wish to thank the authors of the contributions chapters of this volume for their enthusiastic response to my idea of publishing this volume and Dr Gianni Astarita of the University of Naples Italy for his encouragement during the initial stages of this project

*Structure Processing Properties Relationships in Stoichiometric and Nonstoichiometric Oxides* Speranta Tanasescu, 2020-11-04 The interrelation among composition microstructure and properties of stoichiometric and nonstoichiometric compounds is a major field of research for both scientific and technological reasons As such this book focuses on metal oxides which present a large diversity of electrical magnetic optical optoelectronic thermal electrochemical and catalytic properties making them suitable for a wide range of applications By bringing together scientific contributions with special emphasis on the interrelations between materials chemistry processing microstructures and properties of stoichiometric and nonstoichiometric metal oxides this book highlights the importance of tightly integrating high throughput

experiments including both synthesis and characterization and efficient and robust theory for the design of advanced materials **Addison-Wesley Chemistry**, 1990 *The Chemical Element* Javier García-Martínez, Elena Serrano-Torregrosa, 2011-09-19 In the International Year of Chemistry prominent scientists highlight the major advances in the fight against the largest problems faced by humanity from the point of view of chemistry showing how their science is essential to ensuring our long term survival Following the UN Millennium Development Goals the authors examine the ten most critical areas including energy climate food water and health All of them are opinion leaders in their fields or high ranking decision makers in national and international institutions Intended to provide an intellectual basis for the future development of chemistry this book is aimed at a wide readership including students professionals engineers scientists environmentalists and anyone interested in a more sustainable future **Advances in Bionanotechnology Research and Application: 2013 Edition**, 2013-06-21 Advances in Bionanotechnology Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Biochips The editors have built Advances in Bionanotechnology Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Biochips in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Advances in Bionanotechnology Research and Application 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Nuclear Science Abstracts**, **Synopses of Science and Engineering Papers, Graduate School of Science and Engineering, Waseda University, Tokyo, Japan**, 2007 **Nanostructured Multiferroics** Raneesh Balakrishnan, P. M. Visakh, 2021-03-05 Explore the state of the art in multiferroic materials with this cutting edge resource Nanostructured Multiferroics delivers an overview of recent research developments in the area of nanostructured multiferroics along with their preparation characterization and applications Covering single phase and composite multiferroics nanomultiferroics and multiferroic composites the book explains their physical properties the underlying physical principles and the technology and application aspects of the materials including energy harvesting and spintronics With multiferroics undergoing a renaissance of renewed interest and development in the past few years and with promising new breakthroughs in areas like superconductivity spintronics and quantum computing Nanostructured Multiferroics offers both experienced scientists and young researchers inspirational and informative resources likely to spark ideas for further research Along with chapters discussing topics such as the specific heat and magnetocaloric properties of manganite based multiferroics for cryo cooling applications and the multiferroic properties of barium doped BiFeO<sub>3</sub> particles further topics are A comprehensive discussion about the physical

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