

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, $\text{KClO}_3(\text{s})$. 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 3.8×10^{23} 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(II) 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 75.0 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 dinitrogen monoxide. Assume all gases are at the same conditions of temperature and pressure.



Core Teaching Resources Chemistry 12 Stoichiometry

Lei Huang



Core Teaching Resources Chemistry 12 Stoichiometry:

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 Resources in Education, 2000-10 **Prentice Hall Chemistry**, 2000 Teaching Chemistry - A Studybook Ingo Eilks, Avi Hofstein, 2013-04-20 This book focuses on developing and updating prospective and practicing chemistry teachers pedagogical content knowledge The 11 chapters of the book discuss the most essential theories from general and science education and in the second part of each of the chapters apply the theory to examples from the chemistry classroom Key sentences tasks for self assessment and suggestions for further reading are also included The book is focused on many different issues a teacher of chemistry is concerned with The chapters provide contemporary discussions of the chemistry curriculum objectives and assessment motivation learning difficulties linguistic issues practical work student active pedagogies ICT informal learning continuous professional development and teaching chemistry in developing environments This book with contributions from many of the world's top experts in chemistry education is a major publication offering something that has not previously been available Within this single volume chemistry teachers teacher educators and prospective teachers will find information and advice relating to key issues in teaching such as the curriculum assessment and so forth but contextualised in terms of the specifics of teaching and learning of chemistry and drawing upon the extensive research in the field Moreover the book is written in a scholarly style with extensive citations to the literature thus providing an excellent starting point for teachers and research students undertaking scholarly studies in chemistry education whilst at the same time offering insight and practical advice to support the planning of effective chemistry teaching This book should be considered essential reading for those preparing for chemistry teaching and will be an important addition to the libraries of all concerned with chemical education Dr Keith S Taber University of Cambridge Editor Chemistry Education Research and Practice The highly regarded collection of authors in this book fills a critical void by providing an essential resource for teachers of chemistry to enhance pedagogical content knowledge for teaching modern chemistry Through clever orchestration of examples and theory and with carefully framed guiding questions the book equips teachers to act on the relevance of essential chemistry knowledge to navigate such challenges as context motivation to learn thinking activity language assessment and maintaining professional expertise If you are a secondary or post secondary teacher of chemistry this book will quickly become a favorite well thumbed resource Professor Hannah Sevan University of Massachusetts Boston **Basic Concepts of Chemistry** Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader

content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance

Teaching General Chemistry Arthur B. Ellis, 1993 This resource volume written especially for teachers of introductory chemistry courses is in a ready to use format that will enable instructors to integrate materials chemistry into their curriculum The book collects a critical mass of text demonstrations and laboratory experiments The first ten chapters present a general introduction to solids numerous easy to do teacher demonstrations are integrated into the material The second part of the volume consists of fifteen laboratory experiments for students Examples from cutting edge research as well as everyday life spark student interest while illustrating the basic ideas that are important to an understanding of chemistry

Proceedings of the 5th International Conference on Humanities and Social Science (ICHSS 2024)

Evania Yafie, Primasa Minerva Nagari, Sri Handayani, Sinta Yuni Susilawati, Andy Prasetyo Wati, Cinde Ririh

Windayu, Riskiyana Prihatiningsih, 2025-01-20 This is an open access book This conference endeavours to engage with the dynamics of marginalisation processes and their implications for diverse marginalized groups within the complex socio cultural historical and political landscape of Southeast Asia Utilizing a multidisciplinary approach this research encompasses insights from sociology anthropology political science and economics to unravel the layered dynamics of exclusion and the myriad factors contributing to the marginalization of specific communities in the region A critical aspect of this meeting is the exploration of historical legacies examining how the colonial past has influenced contemporary patterns of marginalization The research delves into the socio economic disparities cultural diversity and political structures that underpin the marginalization of certain groups By adopting an intersectional lens the study scrutinizes the interplay of factors such as ethnicity gender religion and socio economic status recognizing the interconnectedness of these dimensions in shaping the experiences of marginalization Furthermore it also examines the repercussions of marginalization on affected communities analyzing the barriers they encounter in accessing fundamental rights such as education healthcare employment and political participation Special attention is given to the resilience and resistance strategies employed by marginalized groups illustrating their agency in navigating and challenging systemic exclusion The conference hopefully incorporates in depth case studies from various countries within Southeast Asia to capture the regional nuances of marginalization processes By adopting a comparative approach the research identifies both commonalities and unique challenges faced by marginalized groups across national borders contributing to a nuanced understanding of regional dynamics This conference not only documents and analyzes the complexities of marginalization within Southeast Asia but also strives to provide actionable insights By shedding light on the challenges faced by marginalized groups the research

aims to inform policy interventions and social initiatives that can address and mitigate the adverse effects of systemic exclusion Through this lens the study contributes to ongoing discussions on social justice equity and inclusive development in the Southeast Asian context fostering a deeper understanding of these issues for the benefit of both academic discourse and practical implementation

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

Curriculum Theory, Practice and Active Learning in Changing Societies Toomas Tenno,2002

Chemistry John S. Phillips,Cheryl Wistrom,2000 **Teaching Chemistry Around the World** Björn Risch,2010 As teachers we often tend to expect other countries to teach chemistry in much the same way as we do but educational systems differ widely At Bielefeld University we started a project to analyse the approach to chemical education in different countries from all over the world Teaching Chemistry around the World 25 countries have participated in the project The resulting country studies are presented in this book This book may be seen as a contribution to make the structure of chemistry teaching in numerous countries more transparent and to facilitate communication between these countries Especially in the case of the school subject chemistry which is very unpopular on the one hand and occupies an exceptional position on the other hand due to its relevance to jobs and everyday life and most notably due to its importance for innovation capacity and problem solving we have to learn from each others educational systems

Chemical Education in the Seventies A. Kornhauser,C. N. R. Rao,D. J. Waddington,2013-10-22 Chemical Education in the Seventies discusses the major innovations and programs in chemical education from various countries The book provides a discourse regarding the aspects of chemistry curriculum of primary secondary and college level which includes laboratory work examination reforms and training of teachers The text also discusses information regarding interactions between chemistry and society such as contributions made by the chemical industry for the education of students at the primary secondary and tertiary levels The selection will appeal to a wide variety of readers particularly to teachers of general science and chemistry in industrialized and developing countries

High School Chemistry Teachers Magazine ,1973 *Teaching School Chemistry* Unesco,1984

Development Projects in Science Education ,1977 **General Chemistry: Interaction of Matter, Energy, and Man** Frederick R. Longo,1974

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