

Unit 6 Notes: Stoichiometry

Pronounced: Stoy-kee-AHM-uh-tree

Name: Key

Stoichiometry: uses mole ratio from BCE to solve problems; branch of chemistry that studies the quantitative relationships in a balanced chemical equation

Stoichiometry is based on the law of conservation of mass. Which states...matter cannot be created or destroyed

How can we interpret coefficients in the following BCE?



1. number of atoms/comounds 2. number of moles...Mole Ratios!

Mole Ratios: Shows the relationship between moles of reactants and products in a chemical reaction.

Write all possible mole ratios from this equation:



$\frac{4 \text{ mol Al}}{3 \text{ mol O}_2}$	$\frac{3 \text{ mol O}_2}{4 \text{ mol Al}}$	$\frac{4 \text{ mol Al}}{2 \text{ mol Al}_2\text{O}_3}$	$\frac{2 \text{ mol Al}_2\text{O}_3}{4 \text{ mol Al}}$	$\frac{3 \text{ mol O}_2}{2 \text{ mol Al}_2\text{O}_3}$	$\frac{2 \text{ mol Al}_2\text{O}_3}{3 \text{ mol O}_2}$
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Mass-Mass Stoichiometry Example

How many grams of oxygen can be produced by decomposing 5.00 g of potassium chlorate?

5.0g

?

1) Map it!!



$$\underline{\hspace{2cm}} 5.00\text{g KClO}_3 \times \frac{1 \text{ mol}}{122.6 \text{ g}} \times \frac{3 \text{ mol O}_2}{2 \text{ mol KClO}_3} \times \frac{32.0 \text{ g}}{1 \text{ mol}} = 1.96 \text{ g O}_2$$

Draw an arrow going down from 5g KClO₃ to below KClO₃, an arrow going to the right to O₂, arrow going up from below O₂ to the question mark above O₂

2) Get to moles!! (Use the periodic table)

3) Use the Mole ratio to get to the new substance.

(This is *stoichiometry*, USE THE Balanced Chemical Equation!!)

4) Get back into grams. (Again with the periodic table)

Unit 10a Stoichiometry Notes

John A. Ripmeester, Saman Alavi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author names.

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Algorithms - ESA 2013 Hans L. Bodlaender, Giuseppe F. Italiano, 2013-08-16 This book constitutes the refereed proceedings of the 21st Annual European Symposium on Algorithms ESA 2013 held in Sophia Antipolis France in September 2013 in the context of the combined conference ALGO 2013 The 69 revised full papers presented were carefully reviewed and selected from 303 initial submissions 53 out of 229 in track Design and Analysis and 16 out of 74 in track Engineering and Applications The papers in this book present original research in all areas of algorithmic research including but not limited to algorithm engineering algorithmic aspects of networks algorithmic game theory approximation algorithms computational biology computational finance computational geometry combinatorial optimization data compression data structures databases and information retrieval distributed and parallel computing graph algorithms hierarchical memories heuristics and meta heuristics mathematical programming mobile computing on line algorithms parameterized complexity pattern matching quantum computing randomized algorithms scheduling and resource allocation problems streaming algorithms

Photochemical Reactors Ernest R. Blatchley, III, 2022-11-03 An intuitively organized and incisive exploration of UV radiation and its modern applications In *Photochemical Reactors Theory Methods and Applications of Ultraviolet Radiation* distinguished civil engineer and researcher Dr Ernest R Blatchley III delivers a comprehensive exploration of the theory methods and contemporary and emerging applications of ultraviolet UV radiation The author describes the fundamentals of the history of photochemistry and photochemical reactions before moving on to consider the dynamic behavior of UV based reactor systems and the physical concepts that govern natural and man made sources of UV radiation The book also covers the numerical and empirical methods used to evaluate photochemical kinetics photobiological kinetics

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Problem Exercises for General Chemistry G.Gilbert Long,Forrest C. Hentz,1986-08-14 A question answer supplement to accompany a 1 year general chemistry course This text is a multiple choice format and can be used with any standard general chemistry text The exercises emphasize the importance of problem solving and equation writing in the style used in general chemistry examinations and professional school aptitude examinations such as the MCAT and VCAT

Maro Polymer Notes ,1996

Clathrate Hydrates, 2 Volumes John A. Ripmeester,Saman Alavi,2022-05-31 Clathrate Hydrates All inclusive reference on clathrate hydrates from a molecular perspective Clathrate hydrates are crystalline water based inclusion compounds many of which form at high pressures and low temperatures Molecular science has provided the foundation for many areas of modern hydrate research and applications ranging from desalination processes to flow assurance in oil and gas pipelines Clathrate Hydrates provides detailed information on the molecular science aspects of hydrate research covering the structural compositional spectroscopic thermodynamic and mechanical properties of clathrate hydrates as well as simulation methods and selected engineering applications Edited and authored by recognized leaders in the field this comprehensive resource introduces readers to clathrate hydrates and reviews the state of the art of the field In depth chapters address different areas of specialization such as characterization of clathrate hydrates using NMR spectroscopy infrared and Raman spectroscopy and X ray and neutron diffraction and scattering Highlights recent developments in clathrate hydrate research and applications such as natural gas recovery desalination and gas separation Reviews various molecular simulation methods for characterizing clathrate hydrates including quantum mechanical calculations and Monte Carlo results Contains tables of known guest molecules summaries of structural and physical properties and different classes of clathrate hydrate phase equilibria Introduces unconventional guest host interactions related non hydrate clathrates and space filling cages using the Frank Kasper approach Covers the molecular motion of guest and host molecules and the relationship between cage geometry and guest dynamics Presents the rate and mechanisms of hydrate formation and decomposition from both macroscopic and microscopic points Clathrate Hydrates Molecular Science and Characterization is an indispensable

reference for materials scientists physical chemists chemical engineers geochemists and graduate students in relevant areas of science and engineering

Air Pollution by Nitrogen Oxides L. Grant, T. Schneider, 2013-10-22 Studies in Environmental Science Volume 21 Air Pollution by Nitrogen Oxides presents the proceedings of the US Dutch International Symposium on Nitrogen Oxide held in Maastricht The Netherlands on May 24 28 1982 This book provides research and development information related to the national and international policies on nitrogen oxides in the United States The Netherlands Japan and elsewhere in Europe Organized into five sessions encompassing 94 chapters this volume begins with an overview of the atmospheric cycle of nitrogen oxide in terms of source strength destruction rates and atmospheric chemistry This text then examines the fundamental physical and chemical processes involved in the formation of nitrogen oxides Other chapters consider the regional pulmonary deposition of nitrogen dioxide in man guinea pigs rats and rabbits by using a general mathematical model formulation for the transport of gases in the lungs This book discusses as well the emission control methods and systems with low nitrogen oxide capability for possible application in The Netherlands and other parts of Europe This book is a valuable resource for government administrative officials research scientists air pollution control experts and students

Physical Chemistry John S. Winn, 1995 This text presents physical chemistry as a coherent whole rather than a set of disjointed topics and shows how the subject relates to the rest of chemistry and physics It emphasizes physical models as well as mathematical techniques along with both rigorous and approximate order of magnitude problem solving Designed to progress beyond a numerical answer problems expose the physical significance of the situation and teach students how to pose a problem in the first place In addition modern molecular concepts currently unanswered problems in research experimental techniques and new directions in the field are introduced wherever appropriate An orderly progression of thermodynamics carefully builds students knowledge without covering too much too early on Chemical reaction thermodynamics is covered in Chapter 7 after the culmination of thermodynamics with advanced material in Chapter 10

Geological Studies in the Klamath Mountains Province, California and Oregon Arthur W. Snoke, Calvin G. Barnes, 2006-01-01 Accompanying CD ROM includes additional images and maps

Combustion Science and Engineering Kalyan Annamalai, Ishwar K. Puri, 2006-12-19 While the basic concepts in any discipline may not vary the problems it faces do change Combustion Science and Engineering is for students and engineers who wish to understand combustion fundamentals and apply them to engineering problems In several instances the authors have included physical explanations along with the mathematical relations and equations so that the principles can be applied to solve real world combustion and pollution problems The book contains an outline of the corpuscular aspects of thermodynamics and introduces the background related to combustion of solid liquid and gaseous fuels Exercise problems formulae and tables appear at the end of text Students embarking on their studies in chemical mechanical aerospace energy and environmental engineering will face continually changing combustion problems such as pollution control and energy efficiency throughout

their careers Soviet Physics, Crystallography ,1993 **Solid Oxide Fuel Cells** S. C. Singhal,M. Dokiya,1999

PEROVSKITES AND OTHER FRAMEWORK STRUCTURE CRYSTALLINE MATERIALS ,2021-01-14 Internet site of the book <http://perovskitesandotherfws.co.ac.com> Perovskites are among the most famous materials due to their exceptional properties they present nearly all existing types of interesting properties in particular as ferroics or multiferroics they may be insulators super conductors or semiconductors magnetoresistant they are used in numerous devices they present hundreds of variants and different crystalline phases and phase transitions and recently appeared as probably the most promising materials for photovoltaics With a crystal structure characterized by octahedra that share their corners these materials belong to the wider category of Framework Structure FWS materials the structure of which is based on units octahedra tetrahedra that share some of their corners or edges with their neighbours This particular feature of FWS materials confers to them unique properties This review volume is constituted of 26 chapters on different aspects and is divided in two parts Fundamental aspects and general properties and Elaborated materials and applied properties Its main purpose is to attempt to identify the properties common to all members of the vast family of FWS materials and understand their differences Besides perovskites derived compounds as 2D perovskites Dion Jacobson Ruddlesden Popper Aurivillius tungsten bronzes and others are presented and their preparation and or properties as single crystals ceramics thin films multilayers nanomaterials nanofibers nanorods etc are discussed We focus on new trends and important recent developments by leaving somewhat aside more classical aspects which can be easily found in older textbooks or review articles Among most recent applications this volume focuses on applications related with interactions with other molecules on photovoltaics and on memories with a special attention to perovskite solar cells that have certainly attracted the most attention of researchers in recent years opening extremely promising routes in photovoltaics In conclusion this book presents a collection of texts elucidating various aspects of the relation between structural organization including dynamical aspects and singular properties of framework crystals it proposes a reasonable balance between experimental and theoretical results and between fundamental aspects and applied properties This volume can be approached on several levels each chapter initially assumes that the reader is not a specialist in the subject and is presented in a pedagogical way it is accessible to master or doctoral students as well as to researchers who want to have informations on recent developments who will find excellent detailed introductions up to hot subjects It may also be used by undergraduate students who should approach given subjects The volume contains 800 pages written by 76 authors from different countries it has an index and is completed by numerous figures to illustrate the text This ebook is for personal use For institutional or multiple use please order according to the average expected number of simultaneous readers between 1 and 10 There is no subscription fee you pay once for ever

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Dynamic Systems Biology Modeling and Simulation consolidates and unifies classical and contemporary multiscale

methodologies for mathematical modeling and computer simulation of dynamic biological systems from molecular cellular organ system on up to population levels The book pedagogy is developed as a well annotated systematic tutorial with clearly spelled out and unified nomenclature derived from the author s own modeling efforts publications and teaching over half a century Ambiguities in some concepts and tools are clarified and others are rendered more accessible and practical The latter include novel qualitative theory and methodologies for recognizing dynamical signatures in data using structural multicompartamental and network models and graph theory and analyzing structural and measurement data models for quantification feasibility The level is basic to intermediate with much emphasis on biomodeling from real biodata for use in real applications Introductory coverage of core mathematical concepts such as linear and nonlinear differential and difference equations Laplace transforms linear algebra probability statistics and stochastics topics The pertinent biology biochemistry biophysics or pharmacology for modeling are provided to support understanding the amalgam of math modeling with life sciences Strong emphasis on quantifying as well as building and analyzing biomodels includes methodology and computational tools for parameter identifiability and sensitivity analysis parameter estimation from real data model distinguishability and simplification and practical bioexperiment design and optimization Companion website provides solutions and program code for examples and exercises using Matlab Simulink VisSim SimBiology SAAMII AMIGO Copasi and SBML coded models A full set of PowerPoint slides are available from the author for teaching from his textbook He uses them to teach a 10 week quarter upper division course at UCLA which meets twice a week so there are 20 lectures They can easily be augmented or stretched for a 15 week semester course Importantly the slides are editable so they can be readily adapted to a lecturer s personal style and course content needs The lectures are based on excerpts from 12 of the first 13 chapters of DSBMS They are designed to highlight the key course material as a study guide and structure for students following the full text content The complete PowerPoint slide package 25 MB can be obtained by instructors or prospective instructors by emailing the author directly at joed.cs@ucla.edu IBM Journal of Research and Development ,1999

Crystallography Reports ,1993

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