

Stoichiometry Worksheet 2: Percent Yield

For each of the problems below:

- Write the balanced chemical equation
- Identify the given (with units) and what you want to find (with units)
- Show set up with units. Check sig figs, give final answer with units and label.

1. Using the Hoffman apparatus for electrolysis, a chemist decomposes 36 g of water into its gaseous elements. How many grams of hydrogen gas should she get (theoretical yield)?



Before $\underline{2 \text{ mol}}$ $\underline{0 \text{ mol}}$ $\underline{0 \text{ mol}}$

Change $\underline{-2 \text{ mol}}$ $\underline{+2 \text{ mol}}$ _____

After $\underline{0 \text{ mol}}$ $\underline{2 \text{ mol}}$

$$36 \text{ g H}_2\text{O} \times \frac{1 \text{ mol H}_2\text{O}}{18.0 \text{ g H}_2\text{O}} = 2.0 \text{ mol H}_2\text{O} \times \frac{2 \text{ mol H}_2}{2 \text{ mol H}_2\text{O}} = 2 \text{ mol H}_2 \times \frac{2.0 \text{ g H}_2}{1 \text{ mol H}_2} = 4.0 \text{ g H}_2$$

2. Recall that liquid sodium reacts with chlorine gas to produce sodium chloride. You want to produce 581 g of sodium chloride. How many grams of sodium are needed?



Before $\underline{9.94 \text{ mol}}$ $\underline{\text{xs mol}}$ $\underline{0 \text{ mol}}$

Change $\underline{-9.94 \text{ mol}}$ _____ $\underline{+9.94 \text{ mol}}$

After $\underline{0 \text{ mol}}$ $\underline{9.94 \text{ mol}}$

$$581 \text{ g NaCl} \times \frac{1 \text{ mol NaCl}}{58.5 \text{ g NaCl}} = 9.93 \text{ mol NaCl} \times \frac{2 \text{ mol Na}}{2 \text{ mol NaCl}} = 9.93 \text{ mol Na} \times \frac{23.0 \text{ g Na}}{1 \text{ mol Na}} = 228 \text{ g Na}$$

3. You eat 180.0 g of glucose (90 M&Ms). If glucose, $\text{C}_6\text{H}_{12}\text{O}_6$, reacts with oxygen gas to produce carbon dioxide and water, how many grams of oxygen will you have to breathe in to burn the glucose?



Before $\underline{1.0 \text{ mol}}$ $\underline{\text{xs mol}}$ $\underline{0 \text{ mol}}$ $\underline{0 \text{ mol}}$

Change $\underline{-1.0 \text{ mol}}$ $\underline{-6.0 \text{ mol}}$ _____

After $\underline{0 \text{ mol}}$ $\underline{\text{xs mol}}$

$$180.0 \text{ g C}_6\text{H}_{12}\text{O}_6 \times \frac{1 \text{ mol C}_6\text{H}_{12}\text{O}_6}{180 \text{ g C}_6\text{H}_{12}\text{O}_6} = 1.00 \text{ mol C}_6\text{H}_{12}\text{O}_6 \times \frac{6 \text{ mol O}_2}{1 \text{ mol C}_6\text{H}_{12}\text{O}_6} = 6.00 \text{ mol O}_2$$

$$6.0 \text{ mol O}_2 \times \frac{32.0 \text{ g O}_2}{1 \text{ mol O}_2} = 192.0 \text{ g O}_2$$

Stoichiometry Answer Key Simulation

Dwight L. Sawyer, Theodore L. Turner



Stoichiometry Answer Key Simulation:

Applied Mathematics and Modeling for Chemical Engineers Richard G. Rice, Duong D. Do, James E. Maneval, 2023-03-21 Understand the fundamentals of applied mathematics with this up to date introduction Applied mathematics is the use of mathematical concepts and methods in various applied or practical areas including engineering computer science and more As engineering science expands the ability to work from mathematical principles to solve and understand equations has become an ever more critical component of engineering fields New engineering processes and materials place ever increasing mathematical demands on new generations of engineers who are looking more and more to applied mathematics for an expanded toolkit Applied Mathematics and Modeling for Chemical Engineers provides this toolkit in a comprehensive and easy to understand introduction Combining classical analysis of modern mathematics with more modern applications it offers everything required to assess and solve mathematical problems in chemical engineering Now updated to reflect contemporary best practices and novel applications this guide promises to situate readers in a 21st century chemical engineering field in which direct knowledge of mathematics is essential Readers of the third edition of Applied Mathematics and Modeling for Chemical Engineers will also find Detailed treatment of ordinary differential equations ODEs and partial differential equations PDEs and their solutions New material concerning approximate solution methods like perturbation techniques and elementary numerical solutions Two new chapters dealing with Linear Algebra and Applied Statistics Applied Mathematics and Modeling for Chemical Engineers is ideal for graduate and advanced undergraduate students in chemical engineering and related fields as well as instructors and researchers seeking a handy reference

Mathematical Modeling of Biofilms IWA Task Group on Biofilm Modeling, 2006-04-30 Over 90% of bacterial biomass exists in the form of biofilms The ability of bacteria to attach to surfaces and to form biofilms often is an important competitive advantage for them over bacteria growing in suspension Some biofilms are good in natural and engineered systems they are responsible for nutrient cycling in nature and are used to purify waters in engineering processes Other biofilms are bad when they cause fouling and infections of humans and plants Whether we want to promote good biofilms or eliminate bad biofilms we need to understand how they work and what works to control them Mathematical Modeling of Biofilms provides guidelines for the selection and use of mathematical models of biofilms The whole range of existing models from simple analytical expressions to complex numerical models is covered The application of the models for the solution of typical problems is demonstrated and the performance of the models is tested in comparative studies With the dramatic evolution of the computational capacity still going on modeling tools for research and practice will become more and more significant in the next few years This report provides the foundation to understand the models and to select the most appropriate one for a given use Mathematical Modeling of Biofilms gives a state of the art overview that is especially valuable for educating students new biofilm researchers and design engineers Through a series of three benchmark problems

the report demonstrates how to use the different models and indicates when simple or highly complex models are most appropriate This is the first report to give a quantitative comparison of existing biofilm models The report supports model based design of biofilm reactors The report can be used as basis for teaching biofilm system modeling The report provides the foundation for researchers seeking to use biofilm modeling or to develop new biofilm models Scientific and Technical Report No 18 **Journal of the Indian Institute of Science** Indian Institute of Science, Bangalore,2008 **Report of Investigations** ,1985 *Current Challenges in Modeling Cellular Metabolism* Daniel Machado,Kai H. Zhuang,Nikolaus Sonnenschein,Markus J. Herrgård,2016-01-21 Mathematical and computational models play an essential role in understanding the cellular metabolism They are used as platforms to integrate current knowledge on a biological system and to systematically test and predict the effect of manipulations to such systems The recent advances in genome sequencing techniques have facilitated the reconstruction of genome scale metabolic networks for a wide variety of organisms from microbes to human cells These models have been successfully used in multiple biotechnological applications Despite these advancements modeling cellular metabolism still presents many challenges The aim of this Research Topic is not only to expose and consolidate the state of the art in metabolic modeling approaches but also to push this frontier beyond the current edge through the introduction of innovative solutions The articles presented in this e book address some of the main challenges in the field including the integration of different modeling formalisms the integration of heterogeneous data sources into metabolic models explicit representation of other biological processes during phenotype simulation and standardization efforts in the representation of metabolic models and simulation results **Physics-Based and Data-Driven Multiscale Modeling of the Structural Formation in Macromolecular Systems (Band 25)** Philipp Nicolas Depta,2024-02-27 In order to improve knowledge on macromolecular structural formation and self assembly this work proposes a physics based and data driven multiscale modeling framework capable of describing structural formation on micro meter and milli second scales near molecular level precision The framework abstracts macromolecules as anisotropic unit objects and models the interactions and environment using data driven approaches The models are parameterized in a bottom up fashion and validated top down by comparison with literature and collaborator data for self assembly of three model system alginate gelation hepatitis B virus capsids and the pyruvate dehydrogenase complex **Biosimulation** Daniel A. Beard,2012-04-12 This practical guide to biosimulation provides the hands on experience needed to devise design and analyze simulations of biophysical processes for applications in biological and biomedical sciences Through real world case studies and worked examples students will develop and apply basic operations through to advanced concepts covering a wide range of biophysical topics including chemical kinetics and thermodynamics transport phenomena and cellular electrophysiology Each chapter is built around case studies in a given application area with simulations of real biological systems developed to analyze and interpret data Open ended project based exercises are provided at the end of each chapter

and with all data and computer codes available online www.cambridge.org/biosim students can quickly and easily run, manipulate, explore, and expand on the examples inside. This hands-on guide is ideal for use on senior undergraduate, graduate courses, and also as a self-study guide for anyone who needs to develop computational models of biological systems.

Control and Safety Analysis of Intensified Chemical Processes Dipesh Shikchand Patle, Gade Pandu

Rangaiah, 2024-03-25 Resource on the control and safety analysis of intensified chemical processes ranging from general methods to specific applications. Control and Safety Analysis of Intensified Chemical Processes covers the basic principles of and recent developments in control and safety analysis of intensified chemical processes ranging from dynamic simulations and safety analysis to the design and control of important processes. The text discusses general methods and tools such as dynamic simulation, control and safety analysis, as well as design aspects and analysis of important applications in order to provide scientists and engineers with an understanding of the design, control, and safety considerations involved in intensified chemical processes. Sample topics covered in Control and Safety Analysis of Intensified Chemical Processes include: Simulation and optimization methods, common programs and simulators for simulation and optimization, and interfacing of simulators and optimizers. Programs, simulators for dynamic simulation and control, tuning of controllers, and popular criteria for control assessment. Control of a hybrid reactive extractive distillation system for ternary azeotropic mixtures, reactive distillation in recycle systems, and middle vessel batch distillation with vapor recompression. Safety analysis of intensified processes, e.g., extractive distillation, dividing wall column, dividing wall column with mechanical vapor recompression, and algal biodiesel process. A comprehensive resource on the subject. Control and Safety Analysis of Intensified Chemical Processes is a highly valuable reference for researchers, students, and practitioners interested in process intensification and their applications. The text can be adopted by instructors for use in advanced courses on process control and safety.

Turbulent Combustion Modeling Tarek Echekki, Epaminondas Mastorakos, 2010-12-25

Turbulent combustion sits at the interface of two important nonlinear multiscale phenomena: chemistry and turbulence. Its study is extremely timely in view of the need to develop new combustion technologies in order to address challenges associated with climate change, energy source uncertainty, and air pollution. Despite the fact that modeling of turbulent combustion is a subject that has been researched for a number of years, its complexity implies that key issues are still eluding, and a theoretical description that is accurate enough to make turbulent combustion models rigorous and quantitative for industrial use is still lacking. In this book, prominent experts review most of the available approaches in modeling turbulent combustion, with particular focus on the exploding increase in computational resources that has allowed the simulation of increasingly detailed phenomena. The relevant algorithms are presented, the theoretical methods are explained, and various application examples are given. The book is intended for a relatively broad audience, including seasoned researchers and graduate students in engineering, applied mathematics, and computational science; engine designers; and computational fluid dynamics (CFD) practitioners.

scientists at funding agencies and anyone wishing to understand the state of the art and the future directions of this scientifically challenging and practically important field **Pressure Leaching Alumina from Raw Kaolinitic Clay Using Hydrochloric Acid** Dwight L. Sawyer, Theodore L. Turner, 1985

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