

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

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

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

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

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Jason Birkett, John Lester



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Answers to all chapter end numerical problems for checking the accuracy of calculations TARGET AUDIENCE BE B Tech Chemical Engineering **Resources in education** ,1984-06 **Intelligent Tutoring Systems** Mitsuru Ikeda,Kevin Ashlay,Tak-Wai Chan,2006-06-21 This book constitutes the refereed proceedings of the 8th International Conference on Intelligent Tutoring Systems ITS 2006 held in Jhongli Taiwan June 2006 The book presents 67 revised full papers and 40 poster papers together with abstracts of 6 keynote talks organized in topical sections on assessment authoring tools bayesian reasoning and decision theoretic approaches case based and analogical reasoning cognitive models collaborative learning e learning and web based intelligent tutoring systems and more **The Practice of Chemistry** Donald J. Wink,Sharon Fetzer-Gislason,Sheila McNicholas,2003-03 Students can't do chemistry if they can't do the math The Practice of Chemistry First Edition is the only preparatory chemistry text to offer students targeted consistent mathematical support to make sure they understand how to use math especially algebra in chemical problem solving The book's unique focus on actual chemical practice extensive study tools and integrated media makes The Practice of Chemistry the most effective way to prepare students for the standard general chemistry course and bright futures as science majors This special PowerPoint tour of the text was created by Don Wink http://www.bfwpub.com/pdfs/wink/POCPowerPoint_Final.ppt 832KB [NTA NEET 40 Days Crash Course in Chemistry with 33 Online Test Series 3rd Edition](#) Disha Experts,2018-12-17 This book contains an Access Code in the starting pages to access the 33 Online Tests NTA NEET 40 Days Crash Course in Chemistry is the thoroughly revised updated redesigned study material developed for quick revision and practice of the complete syllabus of the NEET exams in a short span of 40 days The book can prove to be the ideal material for class 12 students as they can utilise this book to revise their preparation immediately after the board exams The book contains 30 chapters of class 11 12 and each Chapter contains NEET 5 Years at a Glance i.e. Past 5 years QUESTIONS of 2018 2014 with TOPIC WISE Analysis Detailed Mind Maps covers entire JEE Syllabus for speedy revision IMPORTANT CRITICAL Points of the Chapter for last minute revision TIPS to PROBLEM SOLVING to help students to solve Problems in shortest possible time Exercise 1 CONCEPT BUILDER A Collection of Important Topic wise MCQs to Build Your Concepts Exercise 2 CONCEPT APPLICATOR A Collection of Quality MCQs that helps sharpen your concept application ability Answer Keys Detailed Solutions of all the Exercises and Past years problems are provided at the end of the chapter ONLINE CHAPTER TESTS 29 Tests of 15 Questions for each chapter to check your command over the chapter 3 ONLINE Full Syllabus MOCK TESTS To get familiar with exam pattern and complete analysis of your Performance **Oswaal NCERT Exemplar (Problems - Solutions) Class 11 Physics, Chemistry and Mathematics (Set of 3 Books) For 2024 Exam** Oswaal Editorial Board,2023-10-28 Description of the product Chapter wise and Topic wise presentation Chapter wise Objectives A sneak peek into the chapter Mind Map A single page snapshot of the entire chapter Revision Notes Concept based study materials Tips Tricks Useful guidelines for attempting each question perfectly Some Commonly Made Errors Most common and unidentified errors are focused Expert

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Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2018-12-13 A comprehensive and example oriented text for the study of chemical process design and simulation Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software A comprehensive and practical resource the text uses both Aspen Plus and Aspen Hysys simulation software The author describes the basic methodologies for computer aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors separators and heat exchangers The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used In addition to aid in comprehension solutions to examples of real problems are included The final section covers plant design and simulation of processes using nonconventional components This important resource Includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems Combines the basic theoretical principles of chemical process and design with real world examples Covers both processes with conventional organic chemicals and processes with more complex materials such as solids oil blends polymers and electrolytes Presents examples that are solved using a new version of Aspen software ASPEN One 9 Written for students and academics in the field of process design

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using proven software *Artificial Intelligence in Education* Gautam Biswas, Susan Bull, Judy Kay, Antonija Mitrovic, 2011-06-13 This book constitutes the refereed proceedings of the 15th International Conference on Artificial Intelligence in Education AIED 2011 held in Auckland New Zealand in June July 2011 The 49 revised full papers presented together with three invited talks and extended abstracts of poster presentations young researchers contributions and interactive systems reports and workshop reports were carefully reviewed and selected from a total of 193 submissions The papers report on technical advances in and cross fertilization of approaches and ideas from the many topical areas that make up this highly interdisciplinary field of research and development including artificial intelligence agent technology computer science cognitive and learning sciences education educational technology game design psychology philosophy sociology anthropology and linguistics **Target IIT JEE (A complete solution in Chemistry) Class XI** Umesh Jalan, 2021-04-16 The key notes and questions present in this book have been tested by millions of IIT JEE students over the years This book contains all the important and frequent ask concept which is drive from several notes an previous year paper of JEE AIPMT JIPMER AIIMS NEET and various state engineering and medical entrance examinations Even a below average student can crack JEE after doing this book **Thermochemistry and Its Applications to Chemical and Biochemical Systems** M.A.V. Ribeiro Da Silva, 2012-12-06 Proceedings of the NATO Advanced Study Institute on Thermochemistry Today and Its Role in the Immediate Future Viano do Castelo Portugal July 5 15 1982 **Quantitative Chemical Analysis** Daniel C. Harris, 2010-04-30 QCA is the bestselling textbook of choice for analytical chemistry It offers a modern portrait of the techniques of chemical analysis backed by a wealth of real world applications This edition features new coverage of spectroscopy and statistics new pedagogy and enhanced lecturer support Multiple Solution Methods for Teaching Science in the Classroom Stephen DeMeo, 2008 For the first time in science education the subject of multiple solution methods is explored in book form While a multiple method teaching approach is utilized extensively in math education there are very few journal articles and no texts written on this topic in science Teaching multiple methods to science students in order to solve quantitative word problems is important for two reasons First it challenges the practice by teachers that one specific method should be used when solving problems Secondly it calls into question the belief that multiple methods would confuse students and retard their learning Using a case study approach and informed by research conducted by the author this book claims that providing students with a choice of methods as well as requiring additional methods as a way to validate results can be beneficial to student learning A close reading of the literature reveals that time spent on elucidating concepts rather than on algorithmic methodologies is a critical issue when trying to have students solve problems with understanding It is argued that conceptual understanding can be enhanced through the use of multiple methods in an environment where students can compare evaluate and verbally discuss competing methodologies through the facilitation of the instructor This book focuses on two very useful methods proportional reasoning PR and dimensional analysis DA These two methods are

important because they can be used to solve a large number of problems in all of the four academic sciences biology chemistry physics and earth science This book concludes with a plan to integrate DA and PR into the academic science curriculum starting in late elementary school through to the introductory college level A challenge is presented to teachers as well as to textbook writers who rely on the single method paradigm to consider an alternative way to teach scientific problem solving *University Catalog Issue ... Lehigh University, 1924* **Exploring Chemical Analysis** Daniel C. Harris, 2012-04 Exploring Chemical Analysis provides an ideal one term introduction to analytical chemistry for students whose primary interests generally lie outside of chemistry Combining coverage of all major analytical topics with effective problem solving methods it teaches students how to understand analytical results and how to use quantitative manipulations preparing them for the problems they will encounter in fields from biology to chemistry to geology Consistent Approach to Problem Solving By providing Test Yourself questions which break down problem solving to more elementary steps at the end of each worked example students can check their understanding of the concepts covered in each worked example Integrated Spreadsheet Applications The text can be used without ever opening a spreadsheet application but the early introduction of spreadsheets allows more flexibility Problems marked with a spreadsheet icon denote problems that can be answered with a spreadsheet Chapter Openers show the relevance of analytical chemistry to the real world and to other disciplines of science New Applications through the book include solid phase extraction for the measurement of caffeine measuring the common cold virus with an imprinted polymer on a quartz crystal microbalance a precipitation titration conducted on the Phoenix Mars Lander updated classroom data from a saltwater aquarium microdialysis in biological sampling measuring pH of oceans and rivers by spectrophotometry with indicators continued highlighting of the effects of increasing carbon dioxide in the air and ocean a description of the lithium ion battery how perchlorate was discovered on Mars with ion selective electrodes protein immunosensing with solid state ion selective electrodes X ray photoemission from the peeling of tape how a home pregnancy test works laser ablation atomic emission on Mars lead isotopes in archaeology bisphenol A in food containers measuring trans fat in food with an ionic liquid gas chromatography stationary phase chromated copper arsenate preservative in wood preconcentration of trace elements from seawater simultaneous separation of anions and cations detecting contaminated heparin DNA profiling with a lab on a chip New topics in this edition include The F test for comparison of variance is introduced early in the chapter on statistics The meaning of statistical hypothesis testing is explained with an example from epidemiology Propagation of uncertainty for pH is described New topics in liquid chromatography include ultra performance liquid chromatography superficially porous particles hydrophilic interaction chromatography a waveguide absorbance detector and an illustration of the charged aerosol detector An improved diagram showing the working of an electronic balance and a photograph of the optical train of an ultraviolet visible spectrophotometer are included Updated instructions for Excel spreadsheets to Excel 2007 *Catalog of National Bureau of*

Standards Publications, 1966-1976: Key word index United States. National Bureau of Standards. Technical Information and Publications Division, 1978

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