

$$\text{percent yield} = \frac{\text{actual yield (g)}}{\text{theoretical yield (g)}} \times 100\%$$

↳ from B-E-A chart

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. 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)?



1 mol H_2O : 18.02 g/mol

36 g $\frac{1\text{ mol H}_2\text{O}}{18.02\text{ g}} = 1.99\text{ mol H}_2\text{O}$

1 mol H_2 : 2.02 g

2 mol $\text{H}_2 = \boxed{4.04\text{ g H}_2}$

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?



1 mol $\text{NaCl} = 58.44\text{ g}$
 $581\text{ g NaCl} \times \frac{1\text{ mol NaCl}}{58.44\text{ g}} = 9.94\text{ mol NaCl}$

1 mol $\text{Na} = 22.99\text{ g}$

$9.94\text{ mol Na} \times 22.99\text{ g} = \boxed{228.52\text{ g Na}}$

Modeling Chemistry Unit 8 Test V2

Lingjun Ying



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GPS Stochastic Modelling Xiaoguang Luo, 2013-07-06 Global Navigation Satellite Systems GNSS such as GPS have become an efficient reliable and standard tool for a wide range of applications However when processing GNSS data the stochastic model characterising the precision of observations and the correlations between them is usually simplified and incomplete leading to overly optimistic accuracy estimates This work extends the stochastic model using signal to noise ratio SNR measurements and time series analysis of observation residuals The proposed SNR based observation weighting model significantly improves the results of GPS data analysis while the temporal correlation of GPS observation noise can be efficiently described by means of autoregressive moving average ARMA processes Furthermore this work includes an up to date overview of the GNSS error effects and a comprehensive description of various mathematical methods

Review of the Student Work Carnegie Institute of Technology. Department of Architecture, 1923 **Intelligent Systems in Process Engineering, Part II: Paradigms from Process Operations**, 1995-11-14 Volumes 21 and 22 of Advances in Chemical Engineering contain ten prototypical paradigms which integrate ideas and methodologies from artificial intelligence with those from operations research estimation and control theory and statistics Each paradigm has been constructed around an engineering problem e.g. product design process design process operations monitoring planning scheduling or control Along with the engineering problem each paradigm advances a specific methodological theme from AI such as modeling languages automation in design symbolic and quantitative reasoning inductive and deductive reasoning searching spaces of discrete solutions non monotonic reasoning analogical learning empirical learning through neural networks reasoning in time and logic in numerical computing Together the ten paradigms of the two volumes indicate how computers can expand the scope type and amount of knowledge that can be articulated and used in solving a broad range of engineering problems Sets the foundations for the development of computer aided tools for solving a number of distinct engineering problems Exposes the reader to a variety of AI techniques in automatic modeling searching reasoning and learning The product of ten years experience in integrating AI into process engineering Offers expanded and realistic formulations of real world problems

Applied Chemistry and Chemical Engineering, Volume 4 A. K. Haghi, Lionello Pogliani, Eduardo A. Castro, Devrim Balköse, Omari V. Mukbaniani, Chin Hua Chia, 2017-12-22 Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections

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