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# Chemical Process Calculations Lecture Notes

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#### **Basic Principles and Calculations in Chemical Engineering**

example, just a sketch of the process is required 4 Write additional data required to solve the problem and the chemical equations if the process involves chemical reaction 5 Select a suitable basis of calculations 6 List by symbols each of the unknown values of the stream flows and compositions 7

#### **Basic Principles and Calculations in Chemical Engineering**

view the study of the field of chemical engineering as a tree with material and energy balances being the trunk and the subjects of thermodynamics, fluid flow, heat transfer, mass transfer, reactor kinetics, process control, and process design being the branches off the trunk From this perspective, it is

#### **CHE 31. INTRODUCTION TO CHEMICAL ENGINEERING ...**

LECTURE 12 Recycle, Bypass, & Purge Calculations Prof Manolito E Bambase Jr Department of Chemical Engineering University of the Philippines Los Baños SLIDE 8 Example 12-2 Conversion of Sucrose to Glucose and Fructose Refined sugar (sucrose) can be converted to glucose and fructose by the inversion process  $C_{12}H_{22}O_{11} + H_2O \rightleftharpoons C_6H_{12}O_6 + C_6H_{12}O_6$

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### Chapter 14. CHEMICAL EQUILIBRIUM

Chapter 14 Equilibrium Notes page 1 of 6 Chemical equilibrium: A state in which the rates of the forward and reverse reactions are equal and the concentrations of the reactants and products remain constant  $\Rightarrow$  Equilibrium is a dynamic process  $\rightleftharpoons$  the conversions of reactants to products and

### Chapter 4 - Material Balances Note

Note: For a nonreactive process, the number of independent material balances cannot exceed the number of chemical species in the process 5) Write down the equations you will solve Try to write them in an order that will simplify the calculations For ...

### Chapter 3 Stoichiometry

Calculations with Chemical Formulas and Equations Stoichiometry Anatomy of a Chemical Equation  $CH_4(g) + 2O_2(g) \rightarrow CO_2(g) + 2H_2O(g)$   
Stoichiometry Anatomy of a Chemical Equation Reactants appear on the left side of the equation  $CH_4(g) + 2O_2(g) \rightarrow CO_2(g) + 2H_2O(g)$   
Stoichiometry Anatomy of a Chemical Equation Products appear on the

### Chemical Pathology Lecture Notes 2013 University of Cape ...

Chemical Pathology Lecture Notes 2013 University of Cape Town Preface This manuscript constitutes a series of lecture notes prepared and updated by members of the Division of Chemical Pathology at UCT These notes are intended to provide a clear and concise

### Chapter 4 Mass and Energy Balances

4-5  $r_A = 25 - (1/0005)200^2 = 1875 \text{ kg/m}^3$  Verify the solution At  $t = 0$ , from (E-5);  $r_A = 0$ , as  $t \rightarrow \infty$ ,  $r_A = 25 \text{ kg/m}^3$  The following example requires numerical integration Example 41-4 3A gas storage tank with a floating roof receives a steady input of 540 m<sup>3</sup>/h of a natural gas The rate of withdrawal of gas from the tank,  $F_w$  (m<sup>3</sup>/min), varies more or less randomly

### MATERIAL BALANCE NOTES Irven Rinard Department of ...

Thus, the process engineer must have a clear of how to formulate the model to insure that it is a correct and adequate representation of the process for the purposes for which it is intended This is the subject of Sections I - IV of these notes Today, using process ...

### Chapter 6 Lecture Notes: Chemical Reactions

1 Chapter 6 Lecture Notes: Chemical Reactions Educational Goals 1 Define the term "chemical reaction" 2 Given the reactants and products in a chemical reaction, write and balance chemical equations 3 Use stoichiometric calculations to determine the theoretical yield and percent yield of a reaction 4 Identify redox reactions and determine which species is oxidized and which is reduced

### CL5005 REACTION ENGINEERING

Debasree Ghosh, Lecture notes on Polymer Reaction Engineering, Module I: Chemical Reaction Kinetics CRE: INTRODUCTION • Every industrial chemical process is designed to produce economically a desired product from a variety of starting materials through ...

**CHE 240-001: Chemical Process Calculation II**

Pre-requisites: Chemical Process Calculations I (ChE 210), Chemical Engineering Thermodynamics I (ChE 230), Credits and contact hours 2 credits, 3 contact hours Other learning material: The lecture notes to be posted on the class website give a summary of the course material Please print and bring them along with your textbook and

**Back to Basics Pump Sizing - The Global Home of Chemical ...**

the process The mass flowrate of the system is established on the process flow diagram by the mass balance Achieving this mass flowrate requires a pump that can generate a pressure high enough to overcome the hydraulic resistance of the system of pipes, ...

**Introduction to Chemical Engineering Processes/Print Version**

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**FUELS AND COMBUSTION 3.1 Introduction to Combustion**

Process industries, businesses, homes, and transportation systems have vast heat requirements that are also satisfied by combustion reactions The subject matter of this chapter therefore has wide applicability to a variety of heating processes Combustion is the conversion of a substance called a fuel into chemical compounds