

## **RECYCLE BYPASS AND PURGE CALCULATIONS IN THERMODYNAMICS**



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

LECTURE 12. Recycle, Bypass, & Purge Calculations Prof. Manolito E Bambase Jr. Department of Chemical Engineering. University of the Philippines Los Ba os SLIDE 4 Purge Stream Purge stream is a stream bled off to remove an accumulation of inerts or unwanted material that might otherwise build up in the recycle stream.

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### **07 CHEMICAL ENGINEERING PROCESS CALCULATIONS AND**

24 07. CHEMICAL ENGINEERING PROCESS CALCULATIONS AND THERMODYNAMICS: Laws of conservation of mass and energy; use of tie components; recycle, bypass and purge calculations; degrees of freedom.

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### **Recycle and Purge Numerical 1 Process Calculation For**

Use of tie components; recycle, bypass and purge calculations; Gibb's phase rule and degree of freedom analysis (Discuss in Thermodynamics) Analysis of Gate Question on Process Calculation Topic Name S.R No Year % Question asked question from (2000- 2018) Concept Copy year Material Balance Without Chemical Reaction 2002(2), 2003, 2004 2005, 2008, 2009(2) 2016. 2017 25.64% 2003, 2004, 2008, 2017 Crystallization is most important.

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### **Chapter 5 Material Balance for Multi Unit Operations**

ratio of the recycle stream to the fresh feed stream if the overall conversion through the reactor is 95% and the single-pass conversion through the reactor is 20%. Assume that 20% excess of hydrogen is used in the fresh feed, and that the composition of recycle stream is 22.74mol% benzene and 78.6mol% hydrogen.

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### **Chemical Engineering Syllabus**

Process Calculations and Thermodynamics: Laws of conservation of mass and energy; use of tie components; recycle, bypass and purge calculations; degree of freedom analysis. First and Second laws of thermodynamics. First law application to close and open systems. Second law and Entropy Thermodynamic properties of pure

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A bypass stream is one where a portion of the inlet to a process unit is split from the feed and instead of entering the process is combined with the outlet from that process. This practice is far less common than recycle, but may be used if your ultimate goal is a material with properties "in-between" the untreated reactant and the process outlet product.

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Why Prezi. The science Conversational presenting. Product Business

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Process calculations Steady and unsteady state mass and energy balances including multiphase, multicomponent, reacting and non reacting systems. Use of tie components: recycle bypass purge calculations: Gibbs phase rule and degree of freedom analysis. Thermodynamics First and Second law of thermodynamics.

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Calculations and Thermodynamics Steady and unsteady state mass and energy balances including multiphase, multicomponent, reacting and non-reacting systems. Use of tie components; recycle, bypass and purge calculations; Gibbs phase rule and degree of freedom analysis. First and Second laws of thermodynamics.

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### **Section 1 Engineering Mathematics**

CH Chemical Engineering Section 1: Engineering Mathematics Linear Algebra Matrix algebra, Systems of linear recycle, bypass and purge calculations; Gibbs phase rule and degree of freedom analysis. First and Second laws of thermodynamics. Applications of first law to close and open systems. Second law and Entropy.

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### **Bypass Recycle Streams Mass Balance Class 11**

In this class we analyze the concepts of recycle stream and bypass streams. These make the "maths" a little bit more complicated for us to solve but is very common to have this types of streams in

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