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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.

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Prof. Manolito E Bambase Jr. Department of Chemical Engineering. University of the Philippines Los Baños SLIDE 5
Example 11-1. Theoretical and Stoichiometric Air In a given process, 100 kmol of carbon is burned in a furnace. It has been found that 20% of the carbon undergoes incomplete combustion resulting to CO production.

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CHE 31. INTRODUCTION TO CHEMICAL ENGINEERING CALCULATIONS

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

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$T(0F) = 1.8T(0C) + 32$ $T(0C) =$
 $(1/1.8)[T(0F) - 32]$ Absolute Temperature
Scale - Kelvin and Rankine A
temperature scale on which a reading of

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zero coincides with the theoretical absolute zero (zero entropy configuration) $T(K) = T(0C) + 273.15$
 $T(0R) = T(0F) + 459.67$. 3Fundamental Process Variables in Chemical Engineering.

Lecture 3. Fundamental Process Variables

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Process Engineering Calculations

Dr. Subrata Kumar Majumder is a Professor in the Chemical Engineering Department, IIT Guwahati, India. His

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research interests include multiphase flow and reactor development, hydrodynamics in multiphase flow, mineral processing, process intensifications and micro-nano bubble science and technology and its applications.

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Multiple Choice Question (MCQ)- Chemical Process ...

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Process simulation as the key

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Lec 1: Definition, History, Role of Chemical Engineer; Lec 2: Basic Features of Chemical Process; Lec 3: Unit systems and dimensions; Process Variables and Rate. Lec 4: Variables and Properties of Material in System; Lec 5: Pressure and Temperature of Flow Process; Lec 6: Rate of Process;

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