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Chemical Process Calculations Lecture Notes
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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. Make a number of independent material balances equations equal to unknown

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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

Basic Principles and Calculations in Chemical Engineering
ni= ni 0 +ν. iξ (5) where ni 0is the initial (at time = 0) amount of species i, and ξ is the extent of reaction at the time of interest. Note that in equation 5, and equation 6 below, νihas a negative value for reactants – that is, as ξ increases the reactant amounts decrease.

Chapter 4 – Material Balances Note
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 a succession of treatment steps.

CL5005 REACTION ENGINEERING
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z+ zP. z. z = ˆg (2.2.8) Setting the limit on the left hand side as z!0 gives the definition of the derivative of Pwith respect to z: dP dz = ˆg (2.2.9) In other words, the change in pressure, P, with height, z, is negative – pressure reduces with height (or increases with depth – as any diver knows).