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Stenstrom, M.K. & Rosso, D. (2003) Fundamentals of Chemical Reactor Theory 3 Fig. 1. Batch reactor Given its volume V , and the initial internal concentration c_0 , the total mass will be $M = V\tilde{A}\cdot c_0$. In the unit time, the concentration will be able to change only in virtue of a chemical reaction.

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4 CHAPTER 1 The Basics of Reaction Kinetics for Chemical Reaction Engineering The next task in describing a chemically reacting system is the identification of the reactions and their arrangement in a network. The kinetic analysis of

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Chemical reaction engineering is the synthesis of all these factors with the aim of properly designing a chemical reactor. To find what a reactor is able to do we need to know the kinetics, the contacting pattern and the performance equation. We show this schematically in Figure (1).

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