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Important questions part 1 Lecture

1 - Seg 2, Chapter 1, Introduction

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Lecturers: Prof. A Gavriilidis Dr N.

Szita. Aims: Development of the

structure necessary for solving

chemical reaction engineering

problems. Ultimate goal is the

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design of chemical reactors.

Coursework: 4 sets. Assessment:

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the respective professors and their institutions.

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that engineering activity concerned with the ex-ploitation of chemical reactions on a commercial scale. Its goal is the successful design and operation of chemical reactors, and probably more than any other ac-tivity, it sets chemical engineering apart as a distinct

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Department of Chemical and
Biomolecular Engineering,
University of Illinois at Urbana-
Champaign.

Elements of Chemical Reaction
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1.1 Rate of reaction and dependence on temperature We will once again look at the formation of ammonia (NH_3) from nitrogen and hydrogen (see section Chemical equilibrium of the thermodynamics chapter). This reaction follows the

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Equation: $N_2 + 3H_2 \rightarrow 2NH_3$ (1)

$H^0 = 92 \text{ kJ mol}^{-1}$ $S^0 = 192 \text{ J mol}^{-1} \text{ K}^{-1}$

To find the Gibbs free energy of formation at room temperature, recall that $G^0 = H^0 - T S^0$ (2) = $92 \text{ kJ mol}^{-1} + (298 \text{ K}) (-0.192 \text{ kJ mol}^{-1} \text{ K}^{-1})$ = 35 kJ mol^{-1}

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ChE471: CHEMICAL REACTION ENGINEERING

The study of chemical reaction engineering (CRE) combines the of chemical kinetics study with the reactors in which the reactions occur. Chemical kinetics and reactor design are at the heart of

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producing almost all industrial chemicals. It is primarily a knowledge of chemical kinetics reactor design that distinguishes

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Kinetics Classification of reactions

- Classification based on state of reactant and products 1.

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reaction is homogeneous if it takes
place in one phase alone. 2.
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carrying out exothermic reaction,

use. (A) High recycle for pure gas.

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(B) Plug flow for dilute liquid requiring no large preheating of feed. (C) Cold shot operations for a dilute solution requiring large preheating to bring the stream upto the reaction temperature.

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Questions and Answers ...

Chemical Reaction Engineering by Prof. Milorad Dudukovic. This note explains the following topics:

Stoichiometry, Thermodynamics, Rates, Kinetics, Mechanisms, Ideal Reactors, Interpretation of Kinetic

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