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Title: Chemical  
Reaction Engineering.

Course Codes:  
CENG3003, BENG.

Value:  $\frac{1}{2}$  Unit.

Lecturers: Prof. A  
Gavriilidis Dr N. Szita.

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**Aims:** Development of the structure necessary for solving chemical reaction engineering problems. Ultimate goal is the design of chemical reactors.

**Coursework:** 4 sets.

**Assessment:** Written examination (80%)

Coursework (20%)

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Chapter 1-4 - UCL ...

Elements of Chemical

Reaction Engineering

Highly Polished Lecture

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contains lecture notes

from a typical Chemical

Reaction Engineering

class. Two different

sources of lecture notes

are provided from the

respective professors

and their institutions.

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## Engineering Notes

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reaction engineering  
(CRE): Chemical  
reaction engineering is  
that engineering activity  
concerned with the ex-  
ploitation of chemical  
reactions on a  
commercial scale. Its  
goal is the successful  
design and operation of

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Reaction reactors, and probably more than any other activity, it sets chemical engineering apart as a distinct branch of the engineering profession.

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CH 204: Chemical  
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This page contains  
lecture notes from a



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typical Chemical  
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Lectures 27 and 29-31  
are from Prof. Mary  
Kraft, Department of

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Reaction and

Biomolecular

Engineering, University

of Illinois at Urbana-

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Elements of Chemical

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1 Chemical reactions

1.1 Rate of reaction and

dependence on

temperature We will

once again look at the

*Page 18/38*

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formation of ammonia (NH<sub>3</sub>) from nitrogen and hydrogen (see section Chemical equilibrium of the thermodynamics chapter). This reaction follows the equation:  $N_2 + 3H_2 \rightleftharpoons 2NH_3$  (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  $G_0 = H_0 - T S_0$

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(2) = 92 kJ mol + (298  
K) 0:192 kJ mol K = 35  
kJ mol

---

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Chemical Kinetics;  
Lecture 3 - Reaction  
Mechanisms and

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Forms; Lecture 4 - Ideal  
Reactors; Lecture 5 -  
Evaluation of Rate  
Expressions from  
Experimental Data

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ChE471: CHEMICAL  
REACTION  
ENGINEERING

The study of chemical  
reaction engineering  
(CRE) combines the of

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Reaction kinetics study with the reactors in which the reactions occur. Chemical kinetics and reactor design are at the heart of producing almost all industrial chemicals. It is primarily a knowledge of chemical kinetics reactor design that distinguishes



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Debasree Ghosh,

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Lecture notes on

Polymer Reaction

Engineering, Module I:

Chemical Reaction

Kinetics Classification

of reactions □

Classification based on

state of reactant and

products 1.

Homogeneous reactions

□ A reaction is

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homogeneous if it takes place in one phase alone. 2. Heterogeneous reactions

---

## CL5005 REACTION ENGINEERING

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## Engineering Notes

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Chemical Engineering -  
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Engineering - Nptel  
Multiple Choice

Questions and Answers  
(MCQ) on Chemical  
Reaction Engineering.

01. In case of staged  
packed bed reactors  
carrying out exothermic  
reaction, use. (A) High  
recycle for pure gas. (B)

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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.

---

Chemical Reaction  
Engineering Questions  
and Answers ...

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Reaction Reaction

Engineering by Prof.

Milorad Dudukovic.

This note explains the following topics:

Stoichiometry,

Thermodynamics,

Rates, Kinetics,

Mechanisms, Ideal

Reactors, Interpretation

of Kinetic Data, Reactor

Combinations and

Recycle, Multiple

Reactions, Non-



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isothermal Reactors,  
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Reactions, Diffusion  
and Reaction, Transport  
Effects on Reactions,  
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Lecturers: Prof. A

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Aims:

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GATE Study Material

for Chemical

Engineering: This is

Chemical Engineering

study material for

GATE / PSUs exam

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Reaction in the form of handwritten notes. Candidates may refer this study material for their GATE / PSUs and other National & State level exam preparation. Candidates can download these notes from the table given below.

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