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Reactors and its parts and
use of the same What is
Chemical Reaction

Engineering? Chemical

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1 Chemical reactions 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*

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equilibrium of the
thermodynamics chapter).

This reaction follows the
equation: $N_2 + 3H_2 \rightleftharpoons 2NH_3$

(1) $H^\ominus = 92 \text{ kJ mol}^{-1}$ $S^\ominus = 192$
 $\text{J mol}^{-1} \text{ K}^{-1}$ To find the Gibbs free
energy of formation at room
temperature, recall that G^\ominus

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 $= H^{\circ} - T S^{\circ} \quad (2) = 92 \text{ kJ mol}^{-1} +$
 $(298 \text{ K}) \cdot 0.192 \text{ kJ mol}^{-1} \text{ K} = 35$
 kJ mol^{-1}

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Engineering: Chemical
Reaction ...~~

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reaction engineering and
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through this text, they'll
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introductory treatment of
reactors for single-phase
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exposes them to a broad
range of reactors and key*

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engineering (CRE) for
undergraduate students in
chemical engineering. The
purpose of the work is to
provide students with a
thorough introduction to the*

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*fundamental aspects of
chemical reactor analysis
and design.*

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Reaction Engineering and
Kinetics ...*~~

A rgon is a chemical element

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with symbol Ar and atomic number 18. It is in group 18 of the periodic table and is a noble gas. Argon is the third most common gas in the Earth's atmosphere, at 0.934% (9,340 ppmv), making it over twice as abundant as

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*the next most common
atmospheric gas, water vapor
(which averages about 4000
ppmv, but varies greatly),
and 23 times as abundant as
the next most ...*

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Davis. This book is an
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reaction engineering and was
published by McGraw-Hill in
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in a one-semester course. In fact, our undergraduate reaction engineering course currently uses this textbook. Reaction engineering and reactor engineering are treated separately as opposed to

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*reaction engineering (CRE):
Chemical reaction
engineering is that
engineering activity
concerned with the ex-*

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exploitation of chemical reactions on a commercial scale. Its goal is the successful design and operation of chemical reactors, and probably more than any other activity, it sets chemical engineering

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*apart as a distinct branch
of the engineering
profession.*

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ChE471: CHEMICAL REACTION
ENGINEERING (Fall 2012)

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Lecture in Green L0159

Instructor: Professor

Milorad Dudukovic

(dudu@wustl.edu). Teaching

Assistant: Tim Boungh Wook

Lee

(bounghwooklee@go.wustl.edu)

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processes to convert raw material into useful products. Chemical engineering uses principles of chemistry, physics, mathematics, biology, and economics to efficiently use, produce, design ...

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~~Chemical engineering~~
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An apparatus for growing organisms (yeast, bacteria, or animal cells) under controlled conditions. Used in industrial processes to

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*produce pharmaceuticals,
vaccines, or antibodies.
Also used to convert raw
materials into useful
byproducts such as in the
bioconversion of corn into
ethanol. Industrial
bioreactor ¶.*

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~~Bioreactors — Introduction
to Chemical and Biological
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*The first chemical
engineering curriculum at
MIT was offered in 1888 and
helped to establish chemical*

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*And Kinetics Solution Manual.
engineering as a discipline.
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Since then, members of the
MIT Department of Chemical
Engineering have developed
the tools and guidelines to
define and advance the
field.

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Reaction Engineering Ch 1*

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1 Chemical reactions 1.1
Rate of reaction and
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This reaction follows the
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 $= H^0 - T S^0$ (2) = 92 kJ mol +
(298 K) 0:192 kJ mol K = 35
kJ mol

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Reaction . . .

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purpose of the work is to
provide students with a.*

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range of reactors and key
design features.*

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*published by McGraw-Hill in
2003. It is meant to be used
in a one-semester course. In
fact, our undergraduate
reaction engineering course
currently uses this
textbook. Reaction
engineering and reactor*

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*engineering are treated
separately as opposed to
simultaneously.*

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Chemical reaction
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*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*

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than any other activity, it sets chemical engineering apart as a distinct branch of the engineering profession.

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Milorad Dudukovic

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Assistant: Tim Boungh Wook

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Chemical engineering is a branch of engineering which deals with the study of design and operation of chemical plants and methods of improving production.

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Chemical engineers develop economical commercial processes to convert raw material into useful products. Chemical engineering uses principles of chemistry, physics, mathematics, biology, and

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*economics to efficiently
use, produce, design ...*

~~*Chemical engineering
Wikipedia*~~

*An apparatus for growing
organisms (yeast, bacteria,
or animal cells) under*

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*controlled conditions. Used
in industrial processes to
produce pharmaceuticals,
vaccines, or antibodies.
Also used to convert raw
materials into useful
byproducts such as in the
bioconversion of corn into*

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ethanol. Industrial
bioreactor ¶.

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