

Online Library

Chemical

Reaction

Engineering

Reaction

Engineering

Fogler

*A Comprehensive
Reference for
Electrochemical
Engineering
Theory and
Application From*

Online Library

Chemical

Reaction

Engineering

Engineering

chemical and

electronics

manufacturing, to

hybrid vehicles,

energy storage,

and beyond,

electrochemical

engineering

touches many

industries—any

many lives—every

day. As energy

conservation

becomes of central

Online Library

Chemical

Reaction

Engineering

Taylor

***importance, so too
does the science
that helps us
reduce
consumption,
reduce waste, and
lessen our impact
on the planet.***

***Electrochemical
Engineering
provides a
reference for
scientists and
engineers working***

Online Library

Chemical

Reaction

with

electrochemical

processes, and a

rigorous, thorough

text for graduate

students and upper-

division

undergraduates.

Merging

theoretical

concepts with

widespread

application, this

book is designed to

Online Library

Chemical

Reaction

***provide critical
knowledge in a real-
world context.***

***Beginning with the
fundamental***

principles

***underpinning the
field, the***

***discussion moves
into industrial and***

manufacturing

processes that

blend central ideas

to provide an

Online Library

Chemical

Reaction

***advanced
understanding***

***while explaining
observable results.***

***Fully-worked
illustrations***

***simplify complex
processes, and end-
of chapter***

***questions help
reinforce essential
knowledge. With in-
depth coverage of
both the practical***

Online Library

Chemical

Reaction

*and theoretical,
this book is both a*

thorough

*introduction to and
a useful reference
for the field.*

*Rigorous in depth,
yet grounded in
relevance,*

*Electrochemical
Engineering:*

*Introduces basic
principles from the
standpoint of*

Online Library

Chemical

Reaction

**practical
application**

Explores the

kinetics of

electrochemical

reactions with

discussion on

thermodynamics,

reaction

fundamentals, and

transport Covers

battery and fuel

cell

characteristics,

Online Library

Chemical

Reaction

Engineering

Delves into the

design and

mechanics of

hybrid and electric

vehicles, including

regenerative

braking, start-stop

hybrids, and fuel

cell systems

Examines

electrodeposition,

redox-flow

Online Library

Chemical

Reaction

Engineering

**batteries,
electrolysis,
regenerative fuel
cells,**

**semiconductors,
and other**

**applications of
electrochemical
engineering**

principles

**Overlapping
chemical**

engineering,

chemistry, material

Online Library

Chemical

Reaction

science,

Engineering

mechanical

engineering, and

electrical

engineering,

electrochemical

engineering covers

a diverse array of

phenomena

explained by some

of the important

scientific

discoveries of our

time.

Online Library

Chemical

Reaction

Engineering

provides the

critical

understanding

required to work

effectively with

these processes as

they become

increasingly

central to global

sustainability.

'Elements of

Chemical Reaction

Online Library

Chemical

Reaction

Engineering',

fourth edition,

presents the

fundamentals of
chemical reaction

engineering in a

clear and concise

manner.

The Omnibook

aims to present the

main ideas of

reactor design in a

simple and direct

way. it includes key

Online Library

Chemical

Reaction

Engineering

English

formulas, brief explanations, practice exercises, problems from experience and it skims over the field touching on all sorts of reaction systems. Most important of all it tries to show the reader how to approach the problems of

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Chemical

Reaction

Engineering

Explor

reactor design and what questions to ask. In effect it tries to show that a common strategy threads its way through all reactor problems, a strategy which involves three factors: identifying the flow patten, knowing the kinetics, and

Online Library

Chemical

Reaction

Engineering

For

developing the

proper

performance

equation. It is this

common strategy

which is the heart

of Chemical

Reaction

Engineering and

identifies it as a

distinct field of

study.

Introduction to

Chemical Reaction

Online Library

Chemical

Reaction

**Engineering and
Kinetics**

**Electrochemical
Engineering**

Essentials,

Exercises and

Examples

Elements of

Chemical Reaction

Engineering, 6th

Edition

Elements of

Chemical Reaction

Engineering

Online Library

Chemical

Reaction

Engineering

Fogler

Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. It's goal is the successful

Online Library

Chemical

Reaction

Engineering

Fogler

design and
operation of
chemical
reactors. This
text
emphasizes
qualitative
arguments,
simple design
methods,
graphical
procedures,

Online Library

Chemical

Reaction

Engineering

Fogler

and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

Chemical

Online Library

Chemical

Reaction

Engineering:

Fodler

Reaction
Engineering:
Essentials,
Exercises and
Examples
presents the
essentials of
kinetics,
reactor design
and chemical
reaction
engineering

Online Library

Chemical

Reaction

for

Engineering

Fogler

undergraduate
students.

Concise and

didactic in

its approach,

it features

over 70

resolved

examples and

many

exercises. The

Online Library

Chemical

Reaction

Engineering

Fodler

work is
organized in
two parts: in
the first part
kinetics is
presented
This book
reminds
students in
junior, senior
and graduate
level courses

Online Library

Chemical

Reaction

in physics,
Engineering
Fogler
chemistry and

engineering of
the math they

may have

forgotten (or

learned

imperfectly)

that is needed

to succeed in

science

courses. The

Online Library

Chemical

Reaction

focus is on
math actually

used in

physics,

chemistry, and

engineering,

and the

approach to

mathematics

begins with 12

examples of

increasing

Online Library

Chemical

Reaction

complexity,
designed to

hone the

student's

ability to

think in

mathematical

terms and to

apply

quantitative

methods to

scientific

Online Library

Chemical

Reaction

problems.

Detailed

illustrations

and links to

reference

material

online help

further

comprehension.

The second

edition

features new

Online Library

Chemical

Reaction

problems and
illustrations

and features

expanded

chapters on

matrix algebra

and

differential

equations. Use

of proven

pedagogical

techniques

Online Library

Chemical

Reaction

developed
during the

author's 40

years of

teaching

experience New

practice

problems and

exercises to

enhance

comprehension

Coverage of

Online Library

Chemical

Reaction

Engineering

Fogler

fairly
advanced
topics,
including
vector and
matrix
algebra,
partial
differential
equations,
special
functions and

Online Library

Chemical

Reaction

complex

Engineering

variables

Fogler

St3131MSc

Reactor

Engineering

Collected

Handouts to be

Used with the

Textbook:

Elements of

Chemical

Reaction

Online Library

Chemical

Reaction

Engineering H.

Engineering

Scott

Fogler

Fogler(3nd

Ed., 1999).

Guide to

Essential Math

Wax Deposition

PRINCIPLES OF

MASS TRANSFER

AND SEPERATION

PROCESSES

Today's Definitive,

Page 32/219

Online Library

Chemical

Reaction

Engineering

Fogler

Undergraduate-
Level Introduction to
Chemical Reaction
Engineering
Problem-Solving
For 30 years, H.
Scott Fogler's
Elements of
Chemical Reaction
Engineering has
been the #1 selling
text for courses in

Online Library

Chemical

Reaction

Engineering

Fogler

chemical reaction
engineering

worldwide. Now, in
Essentials of

Chemical Reaction
Engineering, Second
Edition, Fogler has
distilled this classic
into a modern,
introductory-level
guide specifically for
undergraduates.

Online Library

Chemical

Reaction

Engineering

Fogler

This is the ideal resource for today's students: learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem-solving skills. Fogler

Online Library

Chemical

Reaction

successfully

integrates text,

visuals, and

computer

simulations, and

links theory to

practice through

many relevant

examples. This

updated second

edition covers mole

balances, conversion

Online Library

Chemical

Reaction

Engineering

Fogler

and reactor sizing,
rate laws and
stoichiometry,
isothermal reactor
design, rate data
collection/analysis,
multiple reactions,
reaction
mechanisms,
pathways,
bioreactions and
bioreactors,

Online Library

Chemical

Reaction

Engineering

Fogler

catalysis, catalytic
reactors,
nonisothermal
reactor designs, and
more. Its multiple
improvements
include a new
discussion of
activation energy,
molecular
simulation, and
stochastic modeling,

Online Library

Chemical

Reaction

Engineering

Fogler

and a significantly revamped chapter on heat effects in chemical reactors.

To promote the transfer of key skills to real-life settings, Fogler presents three styles of problems:

Straightforward problems that

Online Library

Chemical

Reaction

Engineering

Fowler

reinforce the principles of chemical reaction engineering Living Example Problems (LEPs) that allow students to rapidly explore the issues and look for optimal solutions Open-ended problems that encourage students

Online Library

Chemical

Reaction

Engineering

Fogler

to use inquiry-based learning to practice creative problem-solving skills About the Web Site (umich.edu/~elements/5e/index.html) The companion Web site offers extensive enrichment opportunities and additional content,

Online Library

Chemical

Reaction

Engineering

Eogler

including Complete
PowerPoint slides
for lecture notes for
chemical reaction
engineering classes
Links to additional
software, including
Polymath, MATLAB,
Wolfram
Mathematica,
AspenTech, and
COMSOL

Online Library

Chemical

Reaction

Multiphysics

Engineering

Fogler

Interactive learning resources linked to each chapter, including Learning Objectives, Summary Notes, Web Modules, Interactive Computer Games, Computer Simulations and Experiments, Solved

Online Library

Chemical

Reaction

Engineering

Fogler

Problems, FAQs,
and links to

LearnChemE Living

Example Problems

that provide more
than 75 interactive
simulations,

allowing students to
explore the examples
and ask "what-if "
questions

Professional

Online Library

Chemical

Reaction

Engineering

Fogler

Reference Shelf,
containing advanced
content on reactors,
weighted least
squares,
experimental
planning, laboratory
reactors,
pharmacokinetics,
wire gauze reactors,
trickle bed reactors,
fluidized bed

Online Library

Chemical

Reaction

Engineering

Fogler

reactors, CVD boat
reactors, detailed
explanations of key
derivations, and
more Problem-
solving strategies
and insights on
creative and critical
thinking Register
your product at
informit.com/register
r for convenient

Online Library

Chemical

Reaction

Engineering

Fogler

access to downloads,
updates, and/or
corrections as they
become available.

Wax Deposition:

Experimental

Characterizations,

Theoretical

Modeling, and Field

Practices covers the

entire spectrum of

knowledge on wax

deposition. The book delivers a detailed description of the thermodynamic and transport theories for wax deposition modeling as well as a comprehensive review of laboratory testing for the establishment of appropriate field

Online Library

Chemical

Reaction

Engineering

Fogler

control strategies.

Offering valuable

insight from

academic research

and the flow

assurance industry,

this balanced text:

Discusses the

background of wax

deposition, including

the cause of the

phenomenon, the

Online Library

Chemical

Reaction

Engineering

Fogler

magnitude of the
problem, and its
impact on petroleum
production

Introduces
laboratory

techniques and
theoretical models to
measure and predict
key parameters of
wax precipitation,
such as the wax

Online Library

Chemical

Reaction

Engineering

Fogler

appearance
temperature and the
wax precipitation
curve Explains how
to conduct and
interpret laboratory
experiments to
benchmark different
wax deposition
models, to better
understand wax
deposition

Online Library

Chemical

Reaction

Engineering

Fogler

behaviors, and to predict wax deposit growth for the field. Presents various models for wax deposition, analyzing the advantages and disadvantages of each and evaluating the differences between the

Online Library

Chemical

Reaction

Engineering

Fogler

assumptions used
Provides numerous
examples of how
field management
strategies for wax
deposition can be
established based on
laboratory testing
and modeling work

Wax Deposition:

Experimental

Characterizations,

Online Library

Chemical

Reaction

Engineering

Fogler

Theoretical
Modeling, and Field
aids flow assurance
engineers in
identifying the
severity and
controlling the
problem of wax
deposition. The book
also shows students
and researchers how
fundamental

Online Library

Chemical

Reaction

principles of
thermodynamics,

heat, and mass

transfer can be

applied to solve a

problem common to

the petroleum

industry.

The Leading

Integrated Chemical

Process Design

Guide: With

Online Library

Chemical

Reaction

Engineering

Fogler

Extensive Coverage
of Equipment Design
and Other Key

Topics More than
ever, effective design
is the focal point of
sound chemical
engineering.

Analysis, Synthesis,
and Design of
Chemical Processes,
Fifth Edition,

Online Library

Chemical

Reaction

Engineering

Fogler

presents design as a creative process that integrates the big-picture and small details, and knows which to stress when and why. Realistic from start to finish, it moves readers beyond classroom exercises into open-ended, real-world

Online Library

Chemical

Reaction

Engineering

Fogler

problem solving. The authors introduce up-to-date, integrated techniques ranging from finance to operations, and new plant design to existing process optimization. The fifth edition includes updated safety and ethics resources and

Online Library

Chemical

Reaction

Engineering

Fogler

economic factors indices, as well as an extensive, new section focused on process equipment design and performance, covering equipment design for common unit operations, such as fluid flow, heat transfer,

Online Library

Chemical

Reaction

separations,
Engineering
reactors, and more.

Fowler

Conceptualization

and analysis:

process diagrams,

configurations,

batch processing,

product design, and

analyzing existing

processes Economic

analysis: estimating

fixed capital

Online Library

Chemical

Reaction

Engineering

Fogler

investment and
manufacturing costs,
measuring process
profitability, and
more Synthesis and
optimization:
process simulation,
thermodynamic
models, separation
operations, heat
integration, steady-
state and dynamic

Online Library

Chemical

Reaction

Engineering

Fogler

process simulators,
and process
regulation Chemical
equipment design
and performance: a
full section of
expanded and
revamped coverage
of designing process
equipment and
evaluating the
performance of

Online Library

Chemical

Reaction

Engineering

Fogler

current equipment

Advanced steady-
state simulation:

goals, models,

solution strategies,

and sensitivity and

optimization results

Dynamic simulation:

goals, development,

solution methods,

algorithms, and

solvers Societal

Online Library

Chemical

Reaction

Engineering

Fogler

impacts: ethics,
professionalism,
health, safety,
environmental
issues, and green
engineering
Interpersonal and
communication
skills: working in
teams,
communicating
effectively, and

Online Library

Chemical

Reaction

Engineering

Fogler

writing better reports This text draws on a combined 55 years of innovative instruction at West Virginia University (WVU) and the University of Nevada, Reno. It includes suggested curricula for one-

Online Library

Chemical

Reaction

Engineering

Fogler

and two-semester design courses, case studies, projects, equipment cost data, and extensive preliminary design information for jump-starting more detailed analyses.

Fluid Mechanics for Chemical Engineers
Case Studies with

Online Library

Chemical

Reaction

Solved Examples

Essentials of

Chemical Reaction

Engineering, 2nd

Edition

An Introduction to

Chemical

Engineering Kinetics

& Reactor Design

Chemical Reaction

Engineering

Never

Page 67/219

Online Library

Chemical

Reaction

Engineering

Fogler

HIGHLIGHT a
Book Again!

Virtually all
testable

terms,

concepts,

persons,

places, and

events are

included.

Cram101

Textbook

Online Library

Chemical

Reaction

Engineering

Fogler

Outlines gives
all of the
outlines,
highlights,
notes for your
textbook with
optional
online
practice
tests. Only
Cram101
Outlines are

Online Library

Chemical

Reaction

Textbook
Engineering
Specific.

Fowler

Cram101 is NOT
the Textbook.

Accompanys:

9780130473943

Appropriate

for a one-

semester

undergraduate

or first-year

graduate

Online Library

Chemical

Reaction

Engineering

Fogler

course, this
text

introduces the
quantitative
treatment of
chemical
reaction
engineering.

It covers both
homogeneous
and

heterogeneous

Online Library

Chemical

Reaction

reacting
Engineering
systems and

Fogler
examines

chemical

reaction

engineering as

well as

chemical

reactor

engineering.

Each chapter

contains

Online Library

Chemical

Reaction

numerous
worked-out

problems and

real-world

vignettes

involving

commercial

applications,

a feature

widely praised

by reviewers

and teachers.

Online Library

Chemical

Reaction

2003 edition.

Offers the

reader a

modern

approach to

reactor

description

and modelling.

Using the

widely applied

numerical

language

Online Library

Chemical

Reaction

Engineering

Fogler

MATLAB, it provides the reader with categorized groups of general code for a wide variety of chemical reactors. Being designed as a tool for

Online Library

Chemical

Reaction

researchers

Engineering

and

Fogler

professionals,

the code can

easily be

extended and

adapted by the

reader to

their own

specific

problems.

Engineering

Online Library

Chemical

Reaction

Flow and Heat

Engineering

Exchange

Fogler

Elementary of

Chemical

Reaction

Engineering

(problems to

Accompany the

2nd Edition of

Elements of

Chemical

Reaction

Online Library

Chemical

Reaction

Engineering by

H. Scott

Fogler,

Prentice Hall,

1992)

ELEMENTS OF

CHEMICAL

REACTION

ENGINEERING,

GLOBAL

EDITION.

with

Online Library

Chemical

Reaction

Microfluidics,

Engineering

CFD, and

Fogler
COMSOL

Multiphysics 5

The Engineering

of Chemical

Reactions focuses

explicitly on

developing the

skills necessary

to design a

chemical reactor

Online Library

Chemical

Reaction

**for any
application,**

including

chemical

production,

materials

processing, and

environmental

modeling.

Today's

Definitive, Under

graduate-Level

Introduction to

Online Library

Chemical

Reaction

Chemical

Engineering

Reaction

Engineering

Problem-Solving

For 30 years, H.

Scott Fogler's

Elements of

Chemical

Reaction

Engineering has

been the #1

selling text for

courses in

Page 81/219

Online Library

Chemical

Reaction

Engineering

Fogler

**chemical reaction
engineering**

worldwide. Now,

in Essentials of

Chemical

Reaction

Engineering,

Second Edition,

Fogler has

distilled this

classic into a

modern,

introductory-level

Online Library

Chemical

Reaction

Engineering

Fogler

**guide specifically
for**

undergraduates.

This is the ideal

resource for

today's students:

learners who

demand

instantaneous

access to

information and

want to enjoy

learning as they

Online Library

Chemical

Reaction

**deepen their
critical thinking**

**and creative
problem-solving**

skills. Fogler

**successfully
integrates text,**

visuals, and

computer

simulations, and

links theory to

practice through

many relevant

Online Library

Chemical

Reaction

examples. This updated second

edition covers mole balances, conversion and reactor sizing,

rate laws and stoichiometry,

isothermal reactor design,

rate data collection/analysis,

multiple

Online Library

Chemical

Reaction

reactions,

Engineering

reaction

Foglar

mechanisms,

pathways,

bioreactions and

bioreactors,

catalysis,

catalytic

reactors,

nonisothermal

reactor designs,

and more. Its

multiple

Online Library

Chemical

Reaction

Engineering

Englar

**improvements
include a new
discussion of
activation
energy,
molecular
simulation, and
stochastic
modeling, and a
significantly
revamped
chapter on heat
effects in**

Online Library

Chemical

Reaction

Engineering

Fogler

**chemical
reactors. To
promote the
transfer of key
skills to real-life
settings, Fogler
presents three
styles of
problems:
Straightforward
problems that
reinforce the
principles of**

Online Library

Chemical

Reaction

Engineering

Fogler

**chemical reaction
engineering**

**Living Example
Problems (LEPs)**

that allow

students to

rapidly explore

the issues and

look for optimal

solutions Open-

ended problems

that encourage

students to use

Online Library

Chemical

Reaction

Engineering

Fogler

**inquiry-based
learning to
practice creative
problem-solving
skills About the
Web Site ([umich.
edu/~elements/5
e/index.html](http://umich.edu/~elements/5e/index.html))**

**The companion
Web site offers
extensive
enrichment
opportunities and**

Online Library

Chemical

Reaction

Engineering

Fogler

**additional
content,
including
Complete
PowerPoint slides
for lecture notes
for chemical
reaction
engineering
classes Links to
additional
software,
including**

Online Library

Chemical

Reaction

Polymath,

MATLAB, Wolfram

Mathematica,

AspenTech, and

COMSOL

Multiphysics

Interactive

learning

resources linked

to each chapter,

including

Learning

Objectives,

Online Library

Chemical

Reaction

Engineering

Fogler

**Summary Notes,
Web Modules,
Interactive
Computer Games,
Computer
Simulations and
Experiments,
Solved Problems,
FAQs, and links
to LearnChemE
Living Example
Problems that
provide more**

Online Library

Chemical

Reaction

than 75

interactive

simulations,

allowing students

to explore the

examples and ask

“what-if ”

questions

Professional

Reference Shelf,

containing a...

The Definitive,

Fully Updated

Online Library

Chemical

Reaction

**Guide to
Engineering**

**Separation
Fogler**

Engineering-Now

with a Thorough

Introduction to

Mass Transfer

Analysis

Separation

Process

Engineering,

Third Edition, is

the most

Page 95/219

Online Library

Chemical

Reaction

Engineering

Fogler

**comprehensive,
accessible guide
available on
modern
separation
processes and
the fundamentals
of mass transfer.
Phillip C. Wankat
teaches each key
concept through
detailed, realistic
examples using**

Online Library

Chemical

Reaction

real

Engineering

data-including up-

to-date

simulation

practice and new

spreadsheet-

based exercises.

Wankat

thoroughly

covers each of

today's leading

approaches,

including flash,

Online Library

Chemical

Reaction

Engineering

Fogler

**column, and
batch distillation;
exact calculations
and shortcut
methods for
multicomponent
distillation;
staged and
packed column
design;
absorption;
stripping; and
more. In this**

Online Library

Chemical

Reaction

Engineering

Folder

edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption

Online Library

Chemical

Reaction

separations

(adsorption,

chromatography,

and ion

exchange).

Updated with

new techniques

and references

throughout,

Separation

Process

Engineering,

Third Edition,

Page 100/219

Online Library

Chemical

Reaction

Engineering

Fogler

**also contains
more than 300
new homework
problems, each
tested in the
author's Purdue
University
classes. Coverage
includes Modular,
up-to-date
process
simulation
examples and**

Online Library

Chemical

Reaction

**homework
problems, based**

on Aspen Plus

and easily

adaptable to any

simulator

Extensive new

coverage of mass

transfer and

diffusion,

including both

Fickian and

Maxwell-Stefan

Online Library

Chemical

Reaction

approaches

Detailed

discussions of

liquid-liquid

extraction,

including McCabe-

Thiele, triangle

and computer

simulation

analyses; mixer-

settler design;

Karr columns;

and related mass

Online Library

Chemical

Reaction

Engineering

Fogler

**transfer analyses
Thorough
introductions to
adsorption,
chromatography,
and ion exchange
-designed to
prepare students
for advanced
work in these
areas Complete
coverage of
membrane**

Online Library

Chemical

Reaction

**separations,
including gas**

**permeation,
reverse osmosis,**

ultrafiltration,

pervaporation,

and key

applications A full

chapter on

economics and

energy

conservation in

distillation Excel

Online Library

Chemical

Reaction

spreadsheets

offering

additional

practice with

problems in

distillation,

diffusion, mass

transfer, and

membrane

separation

9780130473943

Essentials of

Chemical

Online Library

Chemical

Reaction

Reaction

Engineering

Analy Synth

Desig Chemi Pr_5

Chemical Reactor

Analysis and

Design

Solutions Manual

The Definitive Guide

to Chemical

Reaction Engineerin

gProblem-Solving –

With Updated

Page 107/219

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Reaction

Engineering

Fogler

Content and More

Active Learning

For decades, H.

Scott Fogler's

Elements of

Chemical Reaction

Engineering

has been the world's

dominant chemical

reaction engineering

text. This

Sixth Edition and

integrated Web site

Online Library

Chemical

Reaction

Engineering

Fogler

deliver a more
compelling active
learning experience
than ever before.

Using sliders and
interactive examples
in Wolfram, Python,
POLYMATH, and
MATLAB, students
can explore
reactions and
reactors by running
realistic simulation

Online Library

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Reaction

experiments.

Engineering

Fogler

Writing for today's

students, Fogler

provides instant

access to

information,

avoid extraneous

details, and presents

novel problems

linking theory to

practice. Faculty can

flexibly define their

courses, drawing on

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Reaction

updated

Engineering

Fogler

chapters, problems,

and extensive

Professional

Reference Shelf web

content at

diverse levels of

difficulty. The book

thoroughly prepares

undergraduates to

apply chemical

reaction kinetics

and physics to the

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Chemical

Reaction

Engineering

Book

design of chemical reactors. And four advanced chapters address graduate-level topics, including effectiveness factors. To support the field's growing emphasis on chemical reactor safety, each chapter now ends with

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apactical safety
lesson. Updates

throughout the book
reflect current theory

and practice and
emphasize safety

New discussions of
molecular

simulations and
stochastic modeling

Increased emphasis
on alternative energy
sources such as

Online Library

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Reaction

solar and biofuels
Thorough reworking

of three chapters on
heat effects Full

chapters on nonideal
reactors, diffusion

limitations, and
residence time

distribution About the
Companion Web

Site (umich.edu/~elements/6e/index.html)

Complete

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Engineering

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PowerPoint slides
for lecture notes for
chemical reaction
engineering classes
Links to additional
software, including
POLYMATH™,
MATLAB™,
Wolfram
Mathematica™,
AspenTech™, and
COMSOL™
Interactive learning

Online Library

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Engineering

Fowler

resources linked to
each chapter,

including Learning
Objectives,

Summary Notes,

Web Modules,

Interactive Computer
Games, Solved

Problems, FAQs,

additional homework
problems, and links

to Learncheme

Living Example

Online Library

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Problems – unique to
this book – that
provide more than
80 interactive
simulations, allowing
students to explore
the examples and
ask "what-if"
questions

Professional

Reference Shelf,

which includes

advanced content on

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reactors, weighted
least squares,
experimental
planning, laboratory
reactors,
pharmacokinetics,
wire gauze reactors,
trickle bed reactors,
fluidized bed
reactors, CVD boat
reactors, detailed
explanations of key
derivations, and

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more Problem-
solving strategies
and insights on
creative and critical
thinking

Catalytic Reactors
presents several key
aspects of reactor
design in Chemical
and Process
Engineering. Starting
with the fundamental
science across a

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broad

Engineering

Egler

interdisciplinary field,

this graduate level

textbook offers a

concise overview on

reactor and process

design for students,

scientists and

practitioners new to

the field. This book

aims to collate into a

comprehensive and

well-informed work

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of leading
researchers from
north America,
western Europe and
south-east Asia. The
editor and
international experts
discuss state-of-the-
art applications of
multifunctional
reactors, biocatalytic
membrane reactors,
micro-flow reactors,

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Reaction

industrial catalytic
reactors, micro

trickle bed reactors
and multiphase
catalytic reactors.

The use of catalytic
reactor technology is
essential for the
economic viability of
the chemical
manufacturing
industry. The
importance of

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Chemical and Process Engineering and efficient design of reactors are another focus of the book. Especially the combination of advantages from both catalysis and chemical reaction technology for optimization and intensification as

essential factors in
the future

development of
reactors and
processes are
discussed.

Furthermore, options
that can drastically
influence reaction
processes, e.g.
choice of catalysts,
alternative reaction
pathways, mass and

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heat transfer effects,
flow regimes and
inherent design of
catalytic reactors are
reviewed in detail.

Focuses on the state-
of-the-art

applications of
catalytic reactors
and optimization in
the design and
operation of
industrial catalytic

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reactors Insights into
transfer of

knowledge from

laboratory science to

industry For students

and researchers in

Chemical and

Mechanical

Engineering,

Chemistry, Industrial

Catalysis and

practising Engineers

Learn Chemical

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Engineering through

Reasoning, Not

Memorization

Essentials of

Chemical Reaction

Engineering is the

complete, modern

introduction to

chemical reaction

engineering for

today's

undergraduate

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students. Starting
from the strengths of

his classic Elements

of Chemical

Reaction

Engineering, Fourth

Edition, in this

volume H. Scott

Fogler added new

material and distilled

the essentials for

undergraduate

students. Fogler's

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unique way of presenting the material helps students gain a deep, intuitive understanding of the field's essentials through reasoning, using a CRE algorithm, not memorization. He especially focuses on important new

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energy and safety issues, ranging from solar and biomass applications to the avoidance of runaway reactions.

Thoroughly classroom tested, this text reflects feedback from hundreds of students at the University of Michigan and other

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leading universities.

It also provides new

resources to help

students discover

how reactors behave

in diverse situations-

including many

realistic, interactive

simulations on DVD-

ROM. New

Coverage Includes

Greater emphasis on

safety: following the

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recommendations of
the Chemical Safety
Board (CSB),
discussion of crucial
safety topics,
including ammonium
nitrate CSTR
explosions, case
studies of the
nitroaniline
explosion, and the
T2 Laboratories
batch reactor

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runaway Solar

energy conversions:

chemical, thermal,

and catalytic water

spilling Algae

production for

biomass Steady-

state nonisothermal

reactor design: flow

reactors with heat

exchange Unsteady-

state nonisothermal

reactor design with

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case studies of
reactor explosions

About the DVD-ROM

The DVD contains

six additional,

graduate-level

chapters covering

catalyst decay,

external diffusion

effects on

heterogeneous

reactions, diffusion

and reaction,

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distribution of residence times for reactors, models for non-ideal reactors, and radial and axial temperature variations in tubular reactions. Extensive additional DVD resources include Summary notes, Web modules, additional examples,

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derivations, audio
commentary, and
self-tests Interactive
computer games
that review and
apply important
chapter concepts
Innovative "Living
Example Problems"
with Polymath code
that can be loaded
directly from the
DVD so students can

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play with the solution
to get an innate
feeling of how
reactors operate A
15-day trial of
Polymath(tm) is
included, along with
a link to the Fogler
Polymath site A
complete, new
AspenTech tutorial,
and four complete
example problems

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Visual Encyclopedia
of Equipment,

Reactor Lab, and

other intuitive tools

More than 500

PowerPoint slides of
lecture notes

Additional updates,

applications, and

information are

available at www.umich.edu/~essen and

www.essentialsofcre

www.essentialsofcre

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.com.

Engineering

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The Engineering of
Chemical Reactions

Open-ended

Problems in

Chemical Reaction

Engineering

Elements of

Chemical Reaction

Engineering, eBook

[GLOBAL EDITION]

Programmed

Learning of

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Chemical Reaction

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Separation Process

Engineering

The third edition of

Engineering Flow

and Heat Exchange

is the most

practical textbook

available on the

design of heat

transfer and

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equipment. This book is an excellent introduction to real-world applications for advanced undergraduates and an indispensable reference for professionals. The book includes comprehensive

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chapters on the different types and classifications of fluids, how to analyze fluids, and where a particular fluid fits into a broader picture.

This book includes various a wide variety of problems and solutions –

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some whimsical
and others directly
from industrial
applications.

Numerous practical
examples of heat
transfer Different
from other
introductory books
on fluids Clearly
written, simple to
understand, written

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for students to
absorb material
quickly Discusses
non-Newtonian as
well as Newtonian
fluids Covers the
entire field
concisely Solutions
manual with
worked examples
and solutions
provided

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"The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the book. It combines authoritative coverage of the principles of chemical reaction engineering with an

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unsurpassed focus
on critical thinking
and creative

problem solving,
employing open-
ended questions
and stressing the
Socratic method.

Clear and
organized, it
integrates text,
visuals, and

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computer

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simulations to help

readers solve even

the most

challenging

problems through

reasoning, rather

than by

memorizing

equations."--BOOK

JACKET.

This is the first

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book entirely on the topic of Migration of Fine Particles in Porous Media. There are two purposes for the use of this book. First, the book is intended to serve as a comprehensive monograph for scientists and

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engineers

Engineering

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concerned with

problems of

erosion, pollution

and plugging due to

migration of fines

in porous media.

Second, the book is

recommended to be

used as a reference

book for courses

offered at senior or

graduate level on the topics of flow through porous media, soil erosion and pollution, or formation damage. The migration of fine particles in porous media is an engineering concern in oil production, soil

erosion, ground water pollution and in the operation of filter beds. As a result, the topic has been studied by researchers working in a number of disciplines. These studies in different disciplines are

conducted, by and
large,
independently and
hence there is some
repetition and
perhaps more
importantly there is
a lack of uniformity
and coherence.

These studies,
nevertheless,
complement each

other. To illustrate the point, consider for example the migration of fine particles induced by hydrodynamic forces.

Strategies for Creative Problem Solving

Analysis, Synthesis, and Design of

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Chemical Processes

Includes Mass

Transfer Analysis

Experimental

Characterizations,

Theoretical

Modeling, and

Field Practices

CHEMICAL

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ENGINEERING,

3RD ED

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*The Chemical
Engineer's
Practical Guide to
Fluid Mechanics:
Now Includes
COMSOL
Multiphysics 5
Since most
chemical
processing
applications are
conducted either
partially or*

totally in the fluid phase, chemical engineers need mastery of fluid mechanics. Such knowledge is especially valuable in the biochemical, chemical, energy, fermentation, materials, mining,

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petroleum,
pharmaceuticals,

polymer, and

waste-processing
industries. Fluid

Mechanics for

Chemical

Engineers: with

Microfluidics,

CFD, and

COMSOL

Multiphysics 5,

Third Edition,

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*systematically
introduces fluid
mechanics from
the perspective of
the chemical
engineer who
must understand
actual physical
behavior and
solve real-world
problems.*

*Building on the
book that earned*

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Choice

Engineering
Magazine's

Outstanding

Academic Title

award, this

edition also gives

a comprehensive

introduction to

the popular

COMSOL

Multiphysics 5

software. This

third edition

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contains

Engineering

extensive

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coverage of both

microfluidics and

computational

fluid dynamics,

systematically

demonstrating

CFD through

detailed

examples using

COMSOL

Multiphysics 5

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and ANSYS

Fluent. The

chapter on

turbulence now

presents valuable

CFD techniques

to investigate

practical

situations such as

turbulent mixing

and recirculating

flows. Part I

offers a clear,

offers a clear,

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succinct, easy-to-follow

*introduction to
macroscopic fluid
mechanics,
including
physical
properties;
hydrostatics;
basic rate laws;
and fundamental
principles of flow
through*

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equipment. Part
II turns to

microscopic fluid
mechanics:

Differential
equations of fluid
mechanics

Viscous-flow
problems, some
including
polymer

processing

Laplace's

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equation;

irrotational and

porous-media

flows Nearly

unidirectional

flows, from

boundary layers

to lubrication,

calendering, and

thin-film

applications

Turbulent flows,

showing how the

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k- ϵ method

extends

conventional

mixing-length

theory Bubble

motion, two-

phase flow, and

fluidization Non-

Newtonian fluids,

including

inelastic and

viscoelastic fluids

Microfluidics and

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*electrokinetic
flow effects,*

including

electroosmosis,

electrophoresis,

streaming

potentials, and

electroosmotic

switching

Computational

fluid mechanics

with ANSYS

Fluent and

Online Library

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Engineering

Feeder

COMSOL

Multiphysics

Nearly 100

completely

worked practical

examples include

12 new COMSOL

5 examples:

boundary layer

flow, non-

Newtonian flow,

jet flow, die flow,

lubrication,

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*momentum
diffusion,*

turbulent flow,

and others. More

*than 300 end-of-
chapter problems*

of varying

complexity are

presented,

including several

from University

of Cambridge

exams. The

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*author covers all
material needed
for the fluid
mechanics
portion of the
professional
engineer's exam.
The author's
website ([fmche.e
ngin.umich.edu](http://fmche.e
ngin.umich.edu))
provides
additional notes,
problem-solving*

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tips, and errata.

Register your product at informa.com/register for convenient access to downloads, updates, and corrections as they become available.

This textbook is targetted to

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undergraduate

students in

chemical

engineering,

chemical

technology, and

biochemical

engineering for

courses in mass

transfer,

separation

processes,

transport

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*processes, and
unit operations.*

*The principles of
mass transfer,
both diffusional
and convective
have been
comprehensively
discussed. The
application of
these principles
to separation
processes is*

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explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of

*the construction,
the operating
principles, and
the selection
criteria of
separation
equipment.*

*Recent
developments in
equipment have
been included as
far as possible.*

The procedure of

Online Library

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*equipment design
and sizing has*

been illustrated

by simple

examples. An

overview of

different

applications and

aspects of

membrane

separation has

also been

provided.

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'Humidification and water cooling', necessary in every process industry, is also described.

Finally, elementary principles of 'unsteady state diffusion' and mass transfer

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*accompanied by a
chemical reaction
are covered.*

SALIENT

FEATURES : • A

balanced

coverage of

theoretical

principles and

applications. •

Important recent

developments in

mass transfer

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Fogler

equipment and practice are included. • A large number of solved problems of varying levels of complexities showing the applications of the theory are included. • Many end-chapter exercises. •

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Folder

*Chapter-wise
multiple choice
questions. • An
Instructors
manual for the
teachers.*

*This book
provides a
framework to
hone and polish
any person's
creative problem-
solving skills.*

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A Review for

Physics,

Chemistry and

Engineering

Students

Outlines and

Highlights for

Elementary of

Chemical

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Engineering by

Scott H Fogler,

Isbn

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*Migrations of
Fines in Porous
Media*

*Fundamentals of
Chemical*

Reaction

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Advanced

*Reactor Modeling
with MATLAB*

Market_Desc: •

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Engineers in

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**Chemical, Nuclear
and Biomedical
Industries Special**

Features: ·

**Emphasis is placed
throughout on the
development of
common design
strategy for all
systems,**

**homogeneous and
heterogeneous·**

This edition

features new topics

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on biochemical systems, reactors with fluidized solids, gas/liquid reactors, and more on non ideal flow. The book explains why certain assumptions are made, why an alternative approach is not used, and to indicate the

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Engineering

limitations of the
treatment when
applied to real
situations About

The Book:

**Chemical reaction
engineering is
concerned with the
exploitation of
chemical reactions
on a commercial
scale. Its goal is
the successful
design and**

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Reaction

Engineering

**operation of
chemical reactors.**

**This text
emphasizes
qualitative
arguments, simple
design methods,
graphical
procedures, and
frequent
comparison of
capabilities of the
major reactor
types. Simple ideas**

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Elements

**are treated first,
and are then
extended to the
more complex.**

**The Definitive
Guide to Chemical
Reaction**

Engineering Problem-Solving With

**Updated Content
and More Active**

**Learning For
decades, H. Scott
Fogler's Elements**

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Reaction

**of Chemical
Engineering
Reaction**

**Engineering has
been the worlds
dominant chemical
reaction**

engineering text.

**This Sixth Edition
and integrated**

**Web site deliver a
more compelling**

active learning

experience than

ever before. Using

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Fogler

**sliders and
interactive
examples in
Wolfram, Python,
POLYMATH, and
MATLAB, students
can explore
reactions and
reactors by
running realistic
simulation
experiments.
Writing for todays
students, Fogler**

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**provides instant
access to
information, avoids
extraneous details,
and presents novel
problems linking
theory to practice.
Faculty can flexibly
define their
courses, drawing
on updated
chapters,
problems, and
extensive**

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web content at
diverse levels of
difficulty. The book
thoroughly
prepares
undergraduates to
apply chemical
reaction kinetics
and physics to the
design of chemical
reactors. And four
advanced chapters

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address graduate-level topics,

including effectiveness

factors. To support

the fields growing

emphasis on

chemical reactor

safety, each

chapter now ends

with a practical

safety lesson.

Updates

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**book reflect
current theory and
practice and
emphasize safety
New discussions of
molecular
simulations and
stochastic
modeling
Increased
emphasis on
alternative energy
sources such as
solar and biofuels**

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Thorough reworking of three chapters on heat effects Full chapters on nonideal reactors, diffusion limitations, and residence time distribution About the Companion Web Site (umich.edu/~elements/6e/index.html)

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for chemical

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Mathematica,

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**Interactive
learning resources
linked to each
chapter, including
Learning
Objectives,
Summary Notes,
Web Modules,
Interactive
Computer Games,
Solved Problems,
FAQs, additional
homework
problems, and**

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Problemsunique to

this bookthat

provide more than

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simulations,

allowing students

to explore the

examples and ask

what-if questions

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**which includes
advanced content
on reactors,
weighted least
squares,
experimental
planning,
laboratory
reactors,
pharmacokinetics,
wire gauze
reactors, trickle
bed reactors,
fluidized bed**

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reactors, CVD boat

reactors, detailed

explanations of key

d...

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decades, H. Scott

Fogler's Elements

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**of Chemical
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**Engineering has
been the world's
dominant chemical
reaction**

engineering text.

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and integrated**

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experience than

ever before. Using

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Wolfram, Python,
POLYMATH, and
MATLAB, students
can explore
reactions and
reactors by
running realistic
simulation
experiments.
Writing for today's
students, Fogler**

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**provides instant
access to
information, avoids
extraneous details,
and presents novel
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theory to practice.
Faculty can flexibly
define their
courses, drawing
on updated
chapters,
problems, and
extensive**

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web content at
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difficulty. The book
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undergraduates to
apply chemical
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and physics to the
design of chemical
reactors. And four
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address graduate-level topics,

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chemical reactor

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with a practical

safety lesson.

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practice and
emphasize safety
New discussions of
molecular
simulations and
stochastic
modeling
Increased
emphasis on
alternative energy
sources such as
solar and biofuels**

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MATLAB(tm),
Wolfram
Mathematica(tm),
AspenTech(tm),
and COMSOL(tm)**

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FAQs, additional
homework
problems, and**

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unique to this book-

that provide more

than 80 interactive

simulations,

allowing students

to explore the

examples and ask

"what-if" questions

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Chemical Reaction Engineering

This is the Second

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chemical reaction

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definitions and

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emphasizing real-world aspects of industrial practice.

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and perform

algebraic and differential equations,

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Thorough coverage is provided on the

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design problems.

More than 500

worked examples and

end-of-chapter

problems are

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www.wiley.com/college/missen,

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files, demonstrations,
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