

Read Free Chemical
Engineering Thermodynamics
Smith

Chemical Engineering Thermodynamics Smith

Suitable for
undergraduates,
postgraduates and
professionals, this is a

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comprehensive text on physical and chemical equilibrium. De Nevers is also the author of Fluid Mechanics for Chemical Engineers.

A Practical, Up-to-Date

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Introduction to Applied
Thermodynamics,
Including Coverage of
Process Simulation
Models and an
Introduction to
Biological Systems

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Introductory Chemical
Engineering
Thermodynamics, Second
Edition, helps readers
master the fundamentals
of applied
thermodynamics as

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practiced today: with
extensive development of
molecular perspectives
that enables adaptation
to fields including
biological systems,
environmental

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applications, and nanotechnology. This text is distinctive in making molecular perspectives accessible at the introductory level and connecting

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properties with
practical implications.
Features of the second
edition include
Hierarchical instruction
with increasing levels
of detail: Content

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requiring deeper levels
of theory is clearly
delineated in separate
sections and chapters
Early introduction to
the overall perspective
of composite systems

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like distillation
columns, reactive
processes, and
biological systems
Learning objectives,
problem-solving
strategies for energy

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balances and phase
equilibria, chapter
summaries, and
“important equations”
for every chapter
Extensive practical
examples, especially

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coverage of non-ideal mixtures, which include water contamination via hydrocarbons, polymer blending/recycling, oxygenated fuels, hydrogen bonding,

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osmotic pressure,
electrolyte solutions,
zwitterions and
biological molecules,
and other contemporary
issues Supporting
software in formats for

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both MATLAB® and
spreadsheets Online
supplemental sections
and resources including
instructor slides,
ConceptTests, coursecast
videos, and other useful

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Fluid Mechanics for
Chemical Engineers,
third edition retains
the characteristics that
made this introductory
text a success in prior

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editions. It is still a book that emphasizes material and energy balances and maintains a practical orientation throughout. No more math is included than is

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required to understand the concepts presented. To meet the demands of today's market, the author has included many problems suitable for solution by computer.

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Two brand new chapters are included. The first, on mixing, augments the book's coverage of practical issues encountered in this field. The second, on

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computational fluid
dynamics (CFD), shows
students the connection
between hand and
computational fluid
dynamics.

With Applications to

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Chemical Processes

Thermodynamics with

Chemical Engineering

Applications

Outlines and Highlights

for Introduction to

Chemical Engineering

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Thermodynamics by Smith,
J M / Abbott, Michael M
/ Van Ness, H C , Isbn
Biochemistry

*Chemical engineers face
the challenge of learning
the difficult concept and*

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Smith

*application of entropy and
the 2nd Law of
Thermodynamics. By
following a visual
approach and offering
qualitative discussions of
the role of molecular*

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interactions, Koretsky helps them understand and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage includes

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biological content and examples, the Equation of State approach for both liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be

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*able to use this resource
as the basis for more
advanced concepts.*

*The Chemical Engineer's
Practical Guide to Fluid
Mechanics: Now Includes
COMSOL Multiphysics 5*

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Since most chemical processing applications are conducted either partially or totally in the fluid phase, chemical engineers need mastery of fluid mechanics. Such

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*knowledge is especially
valuable in the
biochemical, chemical,
energy, fermentation,
materials, mining,
petroleum,
pharmaceuticals, polymer,*

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*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

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*on the book that earned
Choice Magazine's
Outstanding Academic Title
award, this edition also
gives a comprehensive
introduction to the
popular COMSOL*

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*Multiphysics 5 software.
This third edition
contains extensive
coverage of both
microfluidics and
computational fluid
dynamics, systematically*

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demonstrating CFD through detailed examples using COMSOL Multiphysics 5 and ANSYS Fluent. The chapter on turbulence now presents valuable CFD techniques to investigate practical

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*situations such as
turbulent mixing and
recirculating flows. Part
I offers a clear,
succinct, easy-to-follow
introduction to
macroscopic fluid*

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mechanics, including physical properties; hydrostatics; basic rate laws; and fundamental principles of flow through equipment. Part II turns to microscopic fluid

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*mechanics: Differential
equations of fluid
mechanics Viscous-flow
problems, some including
polymer processing
Laplace's equation;
irrotational and porous-*

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*media flows Nearly
unidirectional flows, from
boundary layers to
lubrication, calendering,
and thin-film applications
Turbulent flows, showing
how the $k-\epsilon$ method extends*

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*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*

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mechanics with ANSYS

Fluent and COMSOL

Multiphysics Nearly 100

completely worked

practical examples include

12 new COMSOL 5 examples:

boundary layer flow, non-

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*Newtonian flow, jet flow,
die flow, lubrication,
momentum diffusion,
turbulent flow, and
others. More than 300 end-
of-chapter problems of
varying complexity are*

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*presented, including
several from University of
Cambridge exams. The
author covers all material
needed for the fluid
mechanics portion of the
professional engineer's*

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*exam. The author's website
(fmche.engin.umich.edu)
provides additional notes,
problem-solving tips, and
errata. Register your
product at
informit.com/register for*

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*convenient access to
downloads, updates, and
corrections as they become
available.*

*This book, now in its
second edition, continues
to provide a comprehensive*

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introduction to the principles of chemical engineering thermodynamics and also introduces the student to the application of principles to various practical areas. The book

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emphasizes the role of the fundamental principles of thermodynamics in the derivation of significant relationships between the various thermodynamic properties. The initial

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chapter provides an overview of the basic concepts and processes, and discusses the important units and dimensions involved. The ensuing chapters, in a

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*logical presentation,
thoroughly cover the first
and second laws of
thermodynamics, the heat
effects, the thermodynamic
properties and their
relations, refrigeration*

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and liquefaction processes, and the equilibria between phases and in chemical reactions. The book is suitably illustrated with a large number of visuals. In the

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*second edition, new
sections on Quasi-Static
Process and Entropy Change
in Reversible and
Irreversible Processes are
included. Besides, new
Solved Model Question*

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*Paper and several new
Multiple Choice Questions
are also added that help
develop the students'
ability and confidence in
the application of the
underlying concepts.*

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*Primarily intended for the
undergraduate students of
chemical engineering and
other related engineering
disciplines such as
polymer, petroleum and
pharmaceutical*

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engineering, the book will also be useful for the postgraduate students of the subject as well as professionals in the relevant fields.

Parentology

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*Molecular Engineering
Thermodynamics
with Microfluidics, CFD,
and COMSOL Multiphysics 5
Chemical Engineering
Thermodynamics II*

This course aims to connect the

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principles, concepts, and laws/postulates of classical and statistical thermodynamics to applications that require quantitative knowledge of thermodynamic properties from a macroscopic to a molecular level. It

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covers their basic postulates of classical thermodynamics and their application to transient open and closed systems, criteria of stability and equilibria, as well as constitutive property models of pure materials and mixtures emphasizing

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molecular-level effects using the formalism of statistical mechanics. Phase and chemical equilibria of multicomponent systems are covered. Applications are emphasized through extensive problem work relating to practical

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cases.

Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical

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engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on

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important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations.

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This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in

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design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples,

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over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in

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*chemical engineering-related
branches such as polymer
engineering, petroleum engineering,
and safety and environmental
engineering. New to This Edition •
More Example Problems and
Exercise Questions in each chapter*

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- *Updated section on Vapour–Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach*
- *GATE Questions up to 2012 with answers*
- *A brand new book,*

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***FUNDAMENTALS OF
CHEMICAL ENGINEERING
THERMODYNAMICS*** *makes the
abstract subject of chemical
engineering thermodynamics more
accessible to undergraduate
students. The subject is presented*

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through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book

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covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering

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teaching strategies.

FUNDAMENTALS OF

CHEMICAL ENGINEERING

THERMODYNAMICS uses

examples to frame the importance

of the material. Each topic begins

with a motivational example that is

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investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example

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is fully annotated with sketches and comments on the thought process behind the solved problems.

Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for

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*investigation. Important Notice:
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the product description or the
product text may not be available in
the ebook version.*

*Engineering and Chemical
Thermodynamics*

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*Principles of Chemical Engineering
Processes*

*Introduction to Chemical
Engineering Thermodynamics*

*Introduction to Chemical
Engineering Thermodynamics ...*

Second Edition

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Building up gradually from first principles, this unique introduction to modern thermodynamics integrates classical, statistical and molecular approaches and is especially designed to support students studying chemical and biochemical engineering. In addition to covering traditional

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problems in engineering thermodynamics in the context of biology and materials chemistry, students are also introduced to the thermodynamics of DNA, proteins, polymers and surfaces. It includes over 80 detailed worked examples, covering a broad range of scenarios

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such as fuel cell efficiency, DNA/protein binding, semiconductor manufacturing and polymer foaming, emphasizing the practical real-world applications of thermodynamic principles; more than 300 carefully tailored homework problems, designed to stretch and extend

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students' understanding of key topics, accompanied by an online solution manual for instructors; and all the necessary mathematical background, plus resources summarizing commonly used symbols, useful equations of state, microscopic balances for open systems, and links

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to useful online tools and datasets.
The Clear, Well-Organized
Introduction to Thermodynamics
Theory and Calculations for All
Chemical Engineering Undergraduate
Students This text is designed to make
thermodynamics far easier for
undergraduate chemical engineering

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students to learn, and to help them perform thermodynamic calculations with confidence. Drawing on his award-winning courses at Penn State, Dr. Themis Matsoukas focuses on “ why ” as well as “ how. ” He offers extensive imagery to help students conceptualize the equations,

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illuminating thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures,

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emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic

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calculations to realistic environmental applications; these can be solved with any leading mathematical software.

Coverage includes • Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy • Fundamental relationships and the calculation of properties from equations of state •

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Thermodynamic analysis of chemical processes • Phase diagrams of binary and simple ternary systems • Thermodynamics of mixtures using equations of state • Ideal and nonideal solutions • Partial miscibility, solubility of gases and solids, osmotic processes • Reaction

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equilibrium with applications to single
and multiphase reactions

Clear treatment of systems and first
and second laws of thermodynamics
features informal language, vivid and
lively examples, and fresh
perspectives. Excellent supplement for
undergraduate science or engineering

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Smith
class.

Thermodynamics and Its Applications

Introduction to CHEMICAL

ENGINEERING THERMODYNAMICS

Introduction to Chemical Engineering

Thermodynamics, Outlines &

Highlights

Physical and Chemical Equilibrium for

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Chemical Engineers

An award-winning scientist offers his unorthodox approach to childrearing: "Parentology is brilliant, jaw-droppingly funny, and full of wisdom...bound to change your thinking about

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parenting and its conventions”
(Amy Chua, author of Battle
Hymn of the Tiger Mother). If
you’re like many parents, you
might ask family and friends
for advice when faced with
important choices about how

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to raise your kids. You might turn to parenting books or simply rely on timeworn religious or cultural traditions. But when Dalton Conley, a dual-doctorate scientist and full-blown nerd, needed

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childrearing advice, he turned to scientific research to make the big decisions. In Parentology, Conley hilariously reports the results of those experiments, from bribing his kids to do math (since studies

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show conditional cash transfers improved educational and health outcomes for kids) to teaching them impulse control by giving them weird names (because evidence shows kids with unique names learn not to

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react when their peers tease them) to getting a vasectomy (because fewer kids in a family mean smarter kids). Conley encourages parents to draw on the latest data to rear children, if only because that level of

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engagement with kids will produce solid and happy ones. Ultimately these experiments are very loving, and the outcomes are redemptive—even when Conley's sassy kids show him

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the limits of his profession.
Parentology teaches you
everything you need to know
about the latest literature on
parenting—with lessons that go
down easy. You'll be laughing
and learning at the same time.

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Written by a highly regarded author with industrial and academic experience, this new edition of an established bestselling book provides practical guidance for students, researchers, and those in

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chemical engineering. The book includes a new section on sustainable energy, with sections on carbon capture and sequestration, as a result of increasing environmental awareness; and a companion

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website that includes problems, worked solutions, and Excel spreadsheets to enable students to carry out complex calculations.

Master the principles of thermodynamics, and

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understand their practical real-world applications, with this deep and intuitive undergraduate textbook.

A TEXTBOOK OF CHEMICAL
ENGINEERING
THERMODYNAMICS

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Everything You Wanted to
Know about the Science of
Raising Children but Were Too
Exhausted to Ask
Fluid Mechanics for Chemical
Engineers
Chemical and Engineering

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Thermodynamics

*Introduction to Chemical
Engineering Thermodynamics
presents comprehensive coverage
of thermodynamics from a chemical
engineering viewpoint. The text
provides a thorough exposition of*

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the principles of thermodynamics, and details their application to chemical processes. The chapters are written in a clear, logically organized manner, and contain an abundance of realistic problems, examples, and illustrations to help

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students understand complex concepts. This text is structured to alternate between the development of thermodynamic principles and the correlation and use of thermodynamic properties as well as between theory and applications.

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In this second edition of An Introduction to Numerical Methods for Chemical Engineers the author has revised text, added new problems, and updated the accompanying computer programs. The result is a text that puts

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students on the cutting-edge of solving relevant chemical engineering problems. Designed explicitly for undergraduates, this book provides students with software and experience to solve a number of problems. Included in the

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text are: Numerical algorithms in explicit detail. Example problems from thermodynamic, fluid flow, heat transfer, mass transfer, kinetics, and process design. Equations developed specifically for the student from the example

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problems. An introduction to advanced numerical techniques, such as finite elements, singular value decomposition, and arc length homotopy. An introduction to optimization. A systematic approach to process modeling

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presented with advanced modeling examples. The software that accompanies the book is for IBM-compatible PCs. A solution manual is also available upon request. An Introduction to Numerical Methods for Chemical Engineers was first

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*published in 1988 and has been
taught in universities throughout the
nation.*

*Complex chemically reacting flow
simulations are commonly
employed to develop quantitative
understanding and to optimize*

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reaction conditions in systems such as combustion, catalysis, chemical vapor deposition, and other chemical processes. Although reaction conditions, geometries, and fluid flow can vary widely among the applications of chemically

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*reacting flows, all applications
share a need for accurate, detailed
descriptions of the chemical
kinetics occurring in the gas-phase
or on reactive surfaces.*

*Chemically Reacting Flow: Theory
and Practice combines fundamental*

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concepts in fluid mechanics and physical chemistry, assisting the student and practicing researcher in developing analytical and simulation skills that are useful and extendable for solving real-world engineering problems. The

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first several chapters introduce transport processes, primarily from a fluid-mechanics point of view, incorporating computational simulation from the outset. The middle section targets physical chemistry topics that are required to

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developchemically reacting flow simulations, such as chemicalthermodynamics, molecular transport, chemical rate theories, andreaction mechanisms. The final chapters deal with complexchemically reacting flow

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simulations, emphasizing combustion and materials processing. Among other features, Chemically Reacting Flow: Theory and Practice: -Advances a comprehensive approach to interweaving the fundamentals of

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*chemical kinetics and fluid
mechanics -Embraces
computational simulation, equipping
the reader with effective, practical
tools for solving real-world
problems -Emphasizes physical
fundamentals, enabling the analyst*

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*to understand how reacting flow simulations achieve their results
-Provides a valuable resource for scientists and engineers who use Chemkin or similar software
Computer simulation of reactive systems is highly effective in the*

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development, enhancement, and optimization of chemical processes. Chemically Reacting Flow helps prepare both students and professionals to take practical advantage of this powerful capability.

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*Loose Leaf for Introduction to
Chemical Engineering
Thermodynamics
Answers to Problems, Introduction
to Chemical Engineering
Thermodynamics, Second Edition
Understanding Thermodynamics*

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*Material and Energy Balances,
Second Edition*

***"Introduction to Chemical
Engineering***

***Thermodynamics, 6/e,"
presents comprehensive
coverage of the subject of***

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***thermodynamics from a
chemical engineering
viewpoint. The text provides
a thorough exposition of the
principles of
thermodynamics and details
their application to chemical***

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processes. The chapters are written in a clear, logically organized manner, and contain an abundance of realistic problems, examples, and illustrations to help students understand

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complex concepts. New ideas, terms, and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of

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practical problems. The comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice. The sixth edition continues to be an excellent

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***tool for teaching the subject
of chemical engineering
thermodynamics to
undergraduate students.
Never HIGHLIGHT a Book
Again! Virtually all of the
testable terms, concepts,***

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In its examination of

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biochemistry, this second edition of the text includes expositions of major research techniques through the Tools of Biochemistry, and a presentation of concepts through

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***description of the
experimental bases for those
concepts.***

***Solutions Manual to
Accompany Introduction to
Chemical Engineering
Thermodynamics***

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***Solutions Manual to
Accompany Introduction to
Chemical Engineering
Thermodynamics, Sixth
Edition
Fundamentals of Chemical
Engineering***

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Thermodynamics

Introduction to Chemical
Engineering
Thermodynamics Introduction to
Chemical Engineering
Thermodynamics McGraw-Hill
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Companies

A revised edition of the well-received thermodynamics text, this work retains the thorough coverage and excellent organization that made the first edition so popular. Now

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incorporates industrially relevant microcomputer programs, with which readers can perform sophisticated thermodynamic calculations, including calculations of the type they will encounter in the lab and in

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industry. Also provides a unified treatment of phase equilibria. Emphasis is on analysis and prediction of liquid-liquid and vapor-liquid equilibria, solubility of gases and solids in liquids, solubility of liquids and solids in

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gases and supercritical fluids, freezing point depressions and osmotic equilibria, as well as traditional vapor-liquid and chemical reaction equilibria. Contains many new illustrations and exercises.

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Principles of Chemical
Engineering Processes: Material
and Energy Balances introduces
the basic principles and
calculation techniques used in
the field of chemical engineering,
providing a solid understanding

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of the fundamentals of the application of material and energy balances. Packed with illustrative examples and case studies, this book: Discusses problems in material and energy balances related to chemical

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reactors Explains the concepts of dimensions, units, psychrometry, steam properties, and conservation of mass and energy Demonstrates how MATLAB® and Simulink® can be used to solve complicated problems of

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material and energy balances
Shows how to solve steady-state
and transient mass and energy
balance problems involving
multiple-unit processes and
recycle, bypass, and purge
streams Develops quantitative

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problem-solving skills,
specifically the ability to think
quantitatively (including numbers
and units), the ability to translate
words into diagrams and
mathematical expressions, the
ability to use common sense to

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interpret vague and ambiguous language in problem statements, and the ability to make judicious use of approximations and reasonable assumptions to simplify problems This Second Edition has been updated based

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upon feedback from professors and students. It features a new chapter related to single- and multiphase systems and contains additional solved examples and homework problems.

Educational software,

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downloadable exercises, and a solutions manual are available with qualifying course adoption.

Fundamentals of Chemical
Engineering Thermodynamics,
SI Edition

An Introduction to Numerical

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Smith

Methods for Chemical Engineers
Theory and Practice
Chemical Process Design and
Integration

*Presents comprehensive coverage
of the subject of thermodynamics
from a chemical engineering*

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viewpoint. This text provides an exposition of the principles of thermodynamics and details their application to chemical processes. It contains problems, examples, and illustrations to help students understand complex concepts.

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Chemical Engineering

Thermodynamics

Introductory Chemical Engineering

Thermodynamics

Chemically Reacting Flow

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