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abilities and  
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process units  
using HYSYS.

These five  
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be completed  
over a three-  
week period.

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contains seven  
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develop the  
styrene monomer

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simulated in  
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team's objective  
is to determine  
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which is based  
on release 7.x  
have become

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Software  
Chemical  
Engineering  
obsolete.

However much of the scientific and engineering material has not changed; for example the material describing the distillation modules is completely suitable for self-study



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Software  
Chemical  
Engineering

however some of  
the displays  
have changed.  
New chapters  
include Equation-  
Oriented  
Simulation,  
Electrolytes,  
and an appendix  
on The NIST  
Thermo Data  
Engine as a data  
source. Each  
chapter starts

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with the  
equivalent of a  
classroom  
lecture followed  
by workshops  
which provide  
experience in  
the chapter's  
subject matter.  
The downloadable  
files contain  
solutions, both  
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and text

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formats, to  
examples  
imbedded in the  
text as well as  
to all the  
workshops. There  
are also notes  
at the end of  
each chapter  
designed to aid  
readers that  
have difficulty  
with the  
workshops.

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The field of  
Chemical  
Engineering and  
its link to  
computer science  
is in constant  
evolution and  
new engineers  
have a variety  
of tools at  
their disposal  
to tackle their  
everyday

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Software.

Introduction to  
Software for  
Chemical

Engineers,

Second Edition

provides a quick  
guide to the use  
of various

computer

packages for

chemical

engineering

applications. It

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Software  
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covers a range  
of software  
applications  
from Excel and  
general  
mathematical  
packages such as  
MATLAB and  
MathCAD to  
process  
simulators,  
CHEMCAD and  
ASPEN, equation-  
based modeling

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languages,  
gProms,  
optimization  
software such as  
GAMS and AIMS,  
and specialized  
software like  
CFD or DEM  
codes. The  
different  
packages are  
introduced and  
applied to solve  
typical problems

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Software  
Chemical  
Engineering

in fluid  
mechanics, heat  
and mass  
transfer, mass  
and energy  
balances, unit  
operations,  
reactor  
engineering,  
process and  
equipment design  
and control.

This new edition  
offers a wider



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view of packages including open source software such as R, Python and Julia. It also includes complete examples in ASPEN Plus, adds ANSYS Fluent to CFD codes, Lingo to the optimization

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packages, and  
discusses  
Engineering  
Equation Solver.

It offers a  
global idea of  
the capabilities  
of the software  
used in the  
chemical  
engineering  
field and  
provides  
examples for

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Software real-  
world problems.  
Written by  
leading experts,  
this book is a  
must-have  
reference for  
chemical  
engineers  
looking to grow  
in their careers  
through the use  
of new and  
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computer

software. Its user-friendly approach to simulation and optimization as well as its example-based presentation of the software, makes it a perfect teaching tool for both undergraduate

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levels.

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Process  
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ideal for  
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career  
researchers, and  
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through chemical

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processes and  
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using the main  
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book will help  
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of a process  
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models and  
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as model and  
simulate process  
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before detailed  
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takes place.  
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simulations, the similarities and differences between process simulators, an introduction to operating units, and convergence tips and tricks. You will also learn about the use of simulation for risk studies to



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enhance process  
resilience,  
fault finding in  
abnormal  
situations, and  
for training  
operators to  
control the  
process in  
difficult  
situations. This  
experienced  
author team  
combines

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industry  
knowledge with  
effective  
teaching methods  
to make an  
accessible and  
clear  
comprehensive  
guide to process  
simulation.  
Ideal for  
students, early  
career  
researchers, and

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practitioners,  
as it guides you  
through chemical  
processes and  
unit operations  
using the main  
simulation  
softwares that  
are used in the  
industrial  
sector. Covers  
the fundamentals  
of process  
simulation,

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applications  
Includes case  
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various  
difficulty  
levels to  
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and HYSYS for  
process  
simulations  
available on  
companion site  
Helps readers  
predict the  
characteristics  
of a process  
using  
mathematical  
models and  
computer-aided  
process

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Simulation tools

## Chemical Engineering

The field of  
chemical

engineering is  
in constant  
evolution, and  
access to  
information  
technology is  
changing the way  
chemical  
engineering  
problems are

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addressed.

Inspired by the  
need for a user-  
friendly

chemical

engineering text  
that

demonstrates the  
real-world

applicability of  
different

computer

programs,

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Software for  
Chemical  
Engineers  
acquaints

readers with the  
capabilities of  
various general  
purpose,  
mathematical,  
process modeling  
and simulation,  
optimization,  
and specialized  
software



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packages, while explaining how to use the software to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering, and

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process and  
equipment design  
and control.

Employing nitric  
acid production,  
methanol and  
ammonia recycle  
loops, and SO<sub>2</sub>  
oxidation  
reactor case  
studies and  
other practical  
examples,

Introduction to

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Software for  
Chemical  
Engineers shows  
how computer  
packages such as  
Excel, MATLAB®,  
Mathcad,  
CHEMCAD, Aspen  
HYSYS®, gPROMS,  
CFD, DEM, GAMS,  
and AIMMS are  
used in the  
design and  
operation of

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Software  
chemical  
reactors,  
distillation  
columns, cooling  
towers, and  
more. Make  
Introduction to  
Software for  
Chemical  
Engineers your  
go-to guide and  
quick reference  
for the use of  
computer

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software in  
chemical  
engineering  
applications.

This book offers  
a comprehensive  
coverage of  
process  
simulation and  
flowsheeting,  
useful for  
undergraduate  
students of

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Chemical  
Engineering and  
Process  
Engineering as  
theoretical and  
practical  
support in  
Process Design,  
Process  
Simulation,  
Process  
Engineering,  
Plant Design,  
and Process

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Software courses.

The main  
concepts related  
to process

simulation and  
application  
tools are  
presented and  
discussed in the  
framework of  
typical problems  
found in  
engineering  
design. The

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topics presented  
in the chapters  
are organized in  
an inductive  
way, starting  
from the more  
simplistic  
simulations up  
to some complex  
problems.

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