



# ELEMENTARY PRINCIPLES OF CHEMICAL PROCESSES

THIRD EDITION

## Solution Manual

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RICHARD M. FELDER  
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**Zhe Xu**



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chemical reaction kinetics and physics to the design of chemical reactors Advanced chapters cover graduate level topics including diffusion and reaction models residence time distribution and tools to model non ideal reactors The seventh edition includes An expanded section on molecular simulation methods and potential energy surfaces Updated examples of experimental reactor data and its analysis Detailed discussion of definitions in catalysis and examples of catalytic reactions Additional examples and an expanded section on surface reaction mechanisms and microkinetic modeling A new chapter on electrochemical reactors with example problems reflecting the growing importance of this field in renewable energy and industrial processes About the Companion Web Site [umich.edu/elements/7e/index.html](http://umich.edu/elements/7e/index.html) Comprehensive PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software including POLYMATH<sup>TM</sup> MATLAB<sup>TM</sup> Python Wolfram Mathematica<sup>TM</sup> AspenTech<sup>TM</sup> and COMSOL<sup>TM</sup> Interactive learning 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 and other resources Living Example Problems provide interactive simulations allowing students to explore the examples and ask what if questions Professional Reference Shelf which includes advanced content on reactors weighted least squares experimental planning pharmacokinetics detailed explanations of key derivations and more Redesigned Web site to increase accessibility Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details

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