


# Principles of Chemical Engineering Processes

*By Nayef Ghasem, Redhouane Henda*

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Written in a clear, concise style, **Principles of Chemical Engineering Processes** provides an introduction to the basic principles and calculation techniques that are fundamental to the field. The text focuses on problems in material and energy balances in relation to chemical reactors and introduces software that employs numerical methods to solve these problems.

Upon mastery of this material, readers will be able to:

- Understand basic processing terminology (batch, semibatch, continuous, purge, and recycle) and standard operations (reaction, distillation, absorption, extraction, and filtration)
- Draw and fully label a flowchart for a given process description
- Choose a convenient basis for calculation for both single- and multiple-unit processes
- Identify possible subsystems for which material and energy balances might be written
- Perform a degree of freedom analysis for the overall system and each possible subsystem, formulating the appropriate material and energy balance equations
- Apply the first law of thermodynamics, calculate energy and enthalpy changes, and construct energy balances on closed and open systems

Written as a text to fully meet the needs of advanced undergraduate students, it is also suitable as a reference for chemical engineers with its wide coverage across the biochemical and electromechanical fields. Each chapter of the text provides examples, case studies, and end-of-chapter problems, and the accompanying CD-ROM contains software designed for solving problems in chemical engineering.

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