



Principles of Chemical Engineering Processes: Material and Energy Balances, Second Edition

Nayef Ghasem, Redhouane Henda

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

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