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This best selling text prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering. The Integrated Media Edition update provides a stronger link between the text, media supplements, and new student workbook.

Elementary Principles of Chemical Processes, 4th Edition prepares students to formulate and solve material and energy balances in chemical process systems and lays the

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foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering.

Elementary Principles of Chemical Processes, 4th Edition Student International Version prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering.

Felder's Elementary Principles of Chemical Processes prepares students to formulate and solve material and energy

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balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering. This classic text has provided generations of aspiring chemical engineers with a solid foundation in the discipline of engineering problem analysis, material balances and energy balances. Richard Felder is a recognized global leader in the field of engineering education and this text embodies a lifetime of study and practice in effective teaching techniques. The text is in use at more than 4 out of 5 chemical engineering programs in the US.

This introduction to chemical processes lays the foundation

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for a chemical engineering curriculum. It shows beginning students how to apply engineering techniques to the solution of process-related problems by breaking each problem down into individual component parts, defining the relationships between them, and reuniting them in a single solution.

Providing detailed practical examples with every problem, and self-test questions at the end of each chapter, it uses predominantly SI units in its coverage of theoretical components of an engineering calculation, processes and process variables, fundamentals of material balances, single and multiphase systems, energy and energy balances, balances on nonreactive processes, and more.

Principles of Chemical Engineering Processes: Material and

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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-

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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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A Companion in Chemical Engineering (CinChE) is designed to aid students in the development of their critical thinking skills as an engineering problem solver. The creative problem-solving methodology emphasized in CinChE provides a general framework in which to solve any type of well-defined engineering problem involving material balances, phase equilibria, and energy balances. It is a systems strategy that heavily uses the mental processes of decomposition, chunking, and pattern matching, and it is specifically designed to enhance students' higher-order thinking skills of analysis, synthesis, and evaluation. The CinChE methodology is more systematic than the problem-solving strategies found in most textbooks for the introductory course on chemical engineering. Many of the example problems presented in the

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CinChE manual are similar to ones found in the Elementary Principles of Chemical Processes textbook (Felder, Rousseau, and Bullard, 2016), but their solutions are based on the problem-solving methodology emphasized in the CinChE manual. Because the CinChE manuscript was compiled using Adobe Acrobat(R), it contains many popup notes and web links. Using a supplied web address and Acrobat Reader(R), students can electronically view the popup notes and access the web links that appear in many of the graphic organizers and example problems of the paper copy. The popup notes provide valuable information to help clarify the content within a graphic organizer or an example problem. The web links access text files, Excel(R) files, Aspen HYSYS(R) files, and ".pdf" files. Students can

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download and view the electronic version of the CinChE manual but cannot copy or print its contents. An Excel Add-In called "EZ Setup" that works on Windows-based and Apple-based computers is provided with the second edition. This VBA Add-In macro is used extensively throughout the second edition to solve many exercises and problems. The purpose of the "EZ Setup" utility is to transform a textual description of a set of algebraic equations into an Excel Data/Solver formulation, allowing the user to execute the Data/Solver command to find possibly a numerical solution to the algebraic equations by minimizing the sum of squares. A textual description is a mathematical model or a mathematical algorithm that represents the solution for an exercise or a problem.

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Aspen HYSYS(R) files, and ".pdf" files. Students can view but not copy or print the electronic version of the CinChE manual. An Excel Add-In called "EZ Setup" that works on Windows-based and Apple-based computers is provided with the second edition. This VBA Add-In macro is used extensively throughout the second edition to solve many exercises and problems. The purpose of the "EZ Setup" utility is to transform a textual description of a set of algebraic equations into an Excel Data/Solver formulation, allowing the user to execute the Data/Solver command to find possibly a numerical solution to the algebraic equations by minimizing the sum of squares. A textual description is a mathematical model or a mathematical algorithm that represents the solution for an exercise or a problem.

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Best-selling introductory chemical engineering book - now updated with far more coverage of biotech, nanotech, and green engineering

- Thoroughly covers material balances, gases, liquids, and energy balances.
- Contains new biotech and bioengineering problems throughout.
- Adds new examples and homework on nanotechnology, environmental

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plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous edition have been condensed for greater focus. This text's features include:

- Thorough introductory coverage, including unit conversions, basis selection, and process measurements.
- Short chapters supporting flexible, modular learning.
- Consistent, sound strategies for solving material and energy balance problems.
- Key concepts ranging from stoichiometry to enthalpy.
- Behavior of gases, liquids, and solids.
- Many tables, charts, and reference appendices.
- Self-assessment tests, thought/discussion problems, homework problems, and glossaries in each chapter.

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