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Analysis, Synthesis and Design of Chemical Processes. More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Third Edition, presents design as a creative process that integrates both the big picture and the small details – and knows which to stress when, and why.

The terms analysis and synthesis has been used interchangeably in design science to explain the design process. The terms analysis and synthesis was first used in ancient times in geometry as a problem-solving method with a well established process. Synthesis is a scheme to generate a possible way the product work.

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Analysis, Synthesis, and Design of Chemical Processes, Fourth Edition, presents design as a creative process that integrates both the big picture and the small details—and knows which to stress when, and why. Realistic from start to finish, this updated edition moves readers beyond classroom exercises into open-ended, real-world process problem solving.

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Section III covers the synthesis of a chemical process. The minimum information required to simulate a process is given, as are the basics of using a process simulator. The choice of the appropriate thermodynamic model to use in a simulation is covered, and the choice of separation operations is covered.

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Analysis and synthesis, thus, form the two fundamental tasks to be done in design thinking.

Design thinking process starts with reductionism, where the problem statement is broken down into smaller fragments.

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Process design is the focal point of chemical engineering practice: the creative activity through which engineers continuously improve facility operations to create products that enhance life.

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