

## Introduction To Chemical Engineering Processes

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It starts with a knowledge of algebra, chemistry, and some physics, and builds on current

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knowledge towards more practical problems. The ultimate goal is to obtain a book containing information about all of the major processes a chemical engineer may encounter as well as some insight into their analysis, which is essential for design.

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Introduction to Chemical Process Engineering

Process engineering is essentially the application of chemical engineering principles to optimise the design, operation and control of chemical processes. Since this requires equipment design and selection, mechanical engineers may also be employed as process engineers. Biochemical engineering

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Chemical engineering is a branch of engineering that uses principles of chemistry, physics, mathematics, biology, and economics to efficiently use, produce, design, transport and transform energy and materials. The work of chemical engineers can range from the utilization of nanotechnology and nanomaterials in the laboratory to large-scale industrial processes that convert chemicals, raw materials, living cells, microorganisms, and energy into useful forms and products.

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This opening sentence of Chapter 1 has been the underlying paradigm of chemical engineering. Chemical Engineering: An Introduction is designed to enable the student to explore the activities in which a modern chemical engineer is involved by focusing on mass and energy balances in liquid-phase processes.

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1 CHEMICAL REACTIONS  $r_i = -r_A$  (4)  $r_i = r_A$  (5) Remember that the stoichiometric coefficients for reactants are negative, while those of products are positive. For systems of multiple chemical reactions the rates can be added to obtain the generation of component  $i$  for the whole network of reactions. As an example, take the oxidation of

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