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Process Intensifying equipment, which are special designs that optimize critical parameters (e.g., heat transfer, mass transfer), and Process Intensifying methods, where multiple processing steps are integrated into a single unit operation or alternative energy sources are used.

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The role of design targets to guide a process designer is shown for energy integration and capital investment. In a next design step, process intensification and integration are used to improve the initial process structure with respect to unit operation efficiencies (heating, cooling, and mixing) and process synergies (heat-power integration, reaction distillation, dividing wall column, etc.) resulting in superior processes.

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Chemical and process-design intensification constitute Novel Process Windows. As first-hour demonstration example for the latter, the direct oxidation of cyclohexene with hydrogen peroxide for adipic acid synthesis provides an innovative alternative to the industrial technologies currently being used.

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Process synthesis, integration, and intensification are the three pillars of process design. Current synthesis and integration methods are able to find optimal design targets and process configurations when all the alternatives are known beforehand.

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Process Synthesis and Intensification (PSI) Process Synthesis (PS) is an elementary part of conceptual process design, which comprises of the determination of a general flowsheet structure, the selection of unit operations, their combination, and interconnection as well as rough sizing and costing.

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Abstract. Different ammonia synthesis processes have been considered, based on commercial converters and the relative synthesis loops. Starting from thermodynamic and kinetic modelling considerations, the attention is focused on reactors' design and on the configuration of the ammonia synthesis converter, as included in the whole plant.

Reactor Design, Modelling and Process Intensification for ...

The role of design targets to guide a process designer is shown for energy integration and capital investment. In a next design step, process intensification and integration are used to improve the initial process structure with respect to unit operation efficiencies (heating, cooling, and mixing) and process synergies (heat-power integration, reaction distillation, dividing wall column, etc.) resulting in superior processes.

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While process design tools allow for the evaluation of innovative equipment and solvent choices considering the overall process performance, process synthesis methods enable a plantwide intensification through the generation of innovative process configurations and heat and mass integration.

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Process intensification has become a major design tool to improve the sustainability and economic factors in the chemical industry. One of the objectives of this technique is to minimize the number of pieces of equipment as part of the plant design, which may also contribute to process sustainability.

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