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Abstract A framework is proposed for integration of unit modeling, process synthesis, analysis, optimization, and process design of coal gasification-based energy and chemical processes. The conceptual models of these processes are built by the modeling and synthesis blocks in the framework, which are the bases of analysis and optimization.

An Integrated Framework for Modeling, Synthesis, Analysis ...

Modeling and synthesis of pharmaceutical processes: moving from batch to continuous ... the design, analysis and optimization of chemical and petrochemical processes, might be also ... analysis, separation synthesis and process evalua tion-operation based on evaluation. In the first

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Equations and correlations for equipment design, process modeling, and techno-economic analysis are mainly obtained from Refs [36] [37][38][39][40][41]. Based on the previous study [18,26] and the ...

Analysis, synthesis and design of chemical processes ...

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Process models. Structure analysis and calculation methods. Model adaptation and checking. Simplification of models. Digital simulation. Example 1: Boiler with steam-heated jacket. Example 2: Process analysis of a reforming plant. References. Process Synthesis. Problem formulation. Reaction path analysis. Synthesis of the reactor or reactor system. Synthesis of separation systems. Synthesis of heat exchanger systems. Synthesis of "heterogeneous" chemical process systems. References. Subject ...

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The model prediction for the methanol synthesis loop at steady state showed good agreement against data from an existing commercial plant. Later, the process flowsheet was developed and fully integrated with the Genetic Algorithms Toolbox that generated a set of optimal operating conditions with respect to limits and linear

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