

INTRODUCTION TO ASPEN PLUS SIMULATION

What is Process Simulation/Analysis?

The purpose of analysis/simulation is to model and predict the performance of a process. It involves the decomposition of the process into its constituent elements (e.g. units) for individual study of performance. The process characteristics (e.g. flowrates, compositions, temperatures, pressures, properties, equipment sizes, etc.) are predicted using analysis techniques. These techniques include mathematical models, empirical correlations and computer-aided process simulation tools (e.g. *ASPEN Plus*). In addition, process analysis may involve the use of experimental means to predict and validate performance. Therefore, in process simulation, we are given the process inputs and flowsheet and are required to predict process outputs (Fig. 1). The lab will focus on *ASPEN Plus*. It is a computer-aided software which uses the underlying physical relationships (e.g., material and energy balances, thermodynamic equilibrium, rate equations) to predict process performance (e.g., stream properties, operating conditions, and equipment sizes).

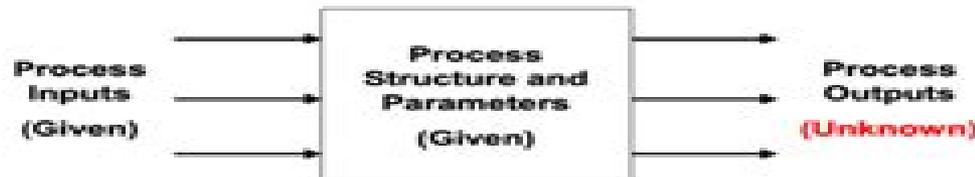


Fig. 1. Process Simulation Problems

There are several advantages of computer-aided simulation:

- Allows the designer to quickly test the performance of synthesized process flowsheets and provide feedback to the process synthesis activities.
- Can be coordinated with process synthesis to develop optimum integrated designs.
- Minimizes experimental and scale-up efforts.
- Explores process flexibility and sensitivity by answering "what-if" questions.
- Quantitatively models the process and sheds insights on process performance.

Important issues to remember before venturing into the exciting world of computer-aided simulation:

- Do NOT implicitly trust the results of ANY simulation tool.
- The calculated results are only as good as the input YOU give the simulator.
- ALWAYS convince yourself that the obtained results make physical sense, otherwise you will NEVER be able to convince someone else of the merits of your work.

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