

INTRODUCTION TO ASPEN PLUS SIMULATION

What is Process Simulation/Analysis?

The purpose of process simulation is to model and predict the performance of a process. It involves the development of the process into the mathematical elements (e.g. units) and subsequent study of performance. The process identification is e.g. flowsheet, instrumentation, composition, process operation, equipment sizes, etc. It can predict the energy analysis, balances (flow, enthalpy, etc.) and material balances, material requirements and integrator requirements (e.g. ASPEN Plus). In addition, process analysis can provide the cost of capital equipment, energy to produce and recycle (efficiencies). Therefore, in process simulation, we are given the process flowsheet and description and we calculate the steady process output (Fig. 1). The tool used here is ASPEN Plus. It is a computer-aided software which uses the underlying physical relationships (e.g., material and energy balances, thermodynamic properties, etc.) together to predict process performance (e.g., stream properties, operating conditions, and requirements).



Fig. 1. Process Simulation Problem.

There are several advantages of computer-aided simulation:

- Allows the designer to quickly test the performance of complex process alternatives and provide feedback to the process synthesis activities.
- Can be incorporated with process synthesis to finding optimum integrated designs.
- Minimizes experimental and scale-up efforts.
- Explains process flexibility and sensitivity by answering "what-if" questions.
- Quantitatively models the process and checks design for process performance.

Despite the many advantages, there are some limitations to the existing world of computer-aided simulation:

- It is hard to quickly test the strength of R&D investment.
- The computational power available on personal computers (PCs) gives the limitation.
- Not all R&D activities provide data that simulated models require physical process information (e.g. unit design etc.) with its inherent inherent value of the quality of process.

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