

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.

Introduction To Aspen Plus Simulation Auburn University

Raffaella Di Napoli



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treatment under a reducing atmosphere that leads to enhanced H₂ production Improved CO concentrations have been observed when CO₂ is added as a co reactive agent In this work a biomass gasification process using steam and CO₂ in a fluidized bed gasifier is modeled using ASPEN Plus The model utilizes Gibbs free energy minimization to predict the effect of operating parameters such as temperature pressure and oxidizing media CO₂ and steam on biomass conversion and syngas composition The model is validated with experimental data obtained from a real fluidized bed gasifier at different operating conditions A sensitivity analysis of product gas composition and a comprehensive sustainability assessment is conducted to evaluate the economic environmental and social performance of steam and CO₂ enhanced biomass gasification **CEP Software Directory** ,1991 **ASEE Annual Conference Proceedings** American Society for Engineering Education. Conference,2004 Pet Veterinarian ,1989 American Men and Women of Science ,1974 **ASPEN PLUS Interactive Simulation** ,1990 **ASPEN PLUS Introductory Manual** ,1985 **ASPEN Plus Simulation of a Single Phase Liquid and a Gas-liquid Systems in a Multistage, Mechanically-agitated, Compartmented Column Including the Effect of Interstage Backmixing** Mohd Sobri Takriff,1996 A generally applicable ASPEN PLUS code which predict the performance of a multistage mechanically agitated compartmented MSAC column reactor including the effect of interstage backmixing was developed The ASPEN PLUS code with appropriate changes can be used for any reaction with any number of compartmented stages for a single phase liquid and a gas liquid system A Statistical Methodology for the Development of Computer Simulation Models and Forest Harvesting Applications Mary Louise Poucher Padgett,1982

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