

Aspen Custom Modeler enables users to quickly create custom models to incorporate their companies' unique expertise and knowledge, enabling them to fully leverage the benefits of process simulation throughout their company.

The Challenge: High Total Cost of Custom Models

Aspen Technology's simulation tools, such as Aspen Plus®, HYSYS®, and Aspen Dynamics®, include comprehensive unit operation model libraries that have been used to successfully simulate thousands of processes. While these models provide significant value, they cannot always capture proprietary company knowledge or the latest published innovations.

Custom models have traditionally been developed using standard programming languages, such as Microsoft Visual Basic™, C++ or FORTRAN. Not only can this be very time consuming, but it also carries a high risk of failure, due to the expertise required in programming, numerical methods and process modeling. The outcome is a high cost for development and maintenance, with companies being reluctant to develop new models.

Given increasing global competition and the increasing rate of innovation, how can engineers quickly and easily capture, create and test new process models to fully leverage company knowledge and expertise without generating difficult-to-maintain programs?

The Opportunity: Fully Leveraging Company Knowledge and Expertise

A key source of sustainable competitive advantage comes from rapidly using company knowledge and expertise, as well as external innovations. To do this, companies must have a common and consistent framework for creating, sharing and re-using custom models. A common modeling tool that promotes cooperation and the easy evaluation of new ideas can help shorten the innovation cycle, and enables users to fully leverage the benefits of process simulation throughout their company.

Further, this helps to ensure consistency of custom model development and deployment provides users with faster access to the latest innovations and reduces total cost of ownership for custom models. Other business benefits of using a common modeling tool to capture the latest innovations include reduced time to market and lower capital costs, improved safety and environmental compliance and higher profitability from more optimal operation.

"Aspen Custom Modeler provides an easy-to-use environment for both capturing and validating our process knowledge. As a standard modeling tool it also gives us a common language for sharing and exporting this knowledge across our enterprise."

Recal Artan
Process Engineer
DSM Services/Engineering
Stamcarbon

The Solution: Aspen Custom Modeler

Aspen Custom Modeler™ is designed to enable the quick and easy development and deployment of custom process models. Aspen Custom Modeler models can be used within AspenTech's other simulation tools, such as Aspen Plus, HYSYS and Aspen Dynamics, making innovation fully available and part of standard process design and operability studies. This enables users to fully leverage their existing models and helps to ensure consistency of simulation results.

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Applications in Design and Simulation of Sustainable Chemical Processes Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 2019-08-08 Applications in Design and Simulation of Sustainable Chemical Processes addresses the challenging applications in designing eco friendly but efficient chemical processes including recent advances in chemistry and catalysis that rely on renewable raw materials Grounded in the fundamental knowledge of chemistry thermodynamics chemical reaction engineering and unit operations this book is an indispensable resource for developing and designing innovating chemical processes by employing computer simulations as an efficient conceptual tool Targeted to graduate and post graduate students in chemical engineering as well as to professionals the book aims to advance their skills in process innovation and conceptual design The work completes the book Integrated Design and Simulation of Chemical Processes by Elsevier 2014 authored by the same team Includes comprehensive case studies of innovative processes based on renewable raw materials Outlines Process Systems Engineering approach with emphasis on systematic design methods Employs steady state and dynamic process simulation as problem analysis and flowsheet creation tool Applies modern concepts as process integration and intensification for enhancing the sustainability *Feature Papers* Michael Henson, 2018-10-04 This book is a printed edition of the Special Issue Feature Papers that was published in Processes , **Decarbonization Technology** Nik Abdul Hadi Sapiaa, Lam Man Kee, Khairulazhar Jumbri, Bamidele Victor Ayodele, Syaza Izyanni Ahmad, 2025-05-25 The Proceedings of the International Conference on Decarbonization Technology ICDT2024 cover a wide range of topics including Hydrogen Solar and Thermal Energy Biomass and Biofuel Carbon Capture and Utilization Green Processes and Materials and Carbon Offsets and Accounting Keywords Hydrogen Production Bioethanol Lithium Recovery Gas Separation Refrigeration Oils Microwave Heating Rubber Waste Tyre CO2 Adsorption Nanofluids Hybrid Supercapacitor CO2 Hydrogenation Oil Palm Wastes Methanol Production Biogas Upgradation Bacterial Nanocellulose Foam Polymer Aerogel Marine Farm Palm Kernel Oil Lithium ion Batteries Beverages for Astronauts Simulation Software Blue Energy Carbon Capture and Storage Nuclear Fusion Quantum Chemistry Porous Media Carbon Quantum Dots **Learn Aspen Plus in 24 Hours, Second Edition** Thomas A. Adams II, 2022-01-07 Quickly start using the current version of Aspen Plus to solve chemical engineering problems Discover how to solve chemical engineering problems with Aspen Plus in just 24 hours with no prior experience Thoroughly revised for the latest distribution this self learning guide features detailed mathematical models for a wide range of chemical process equipment including heat exchangers pumps compressors turbines distillation columns and chemical reactors Divided into 12 two hour lessons Learn Aspen Plus in 24 Hours Second Edition shows step by step how to build process models and simulations without performing tedious calculations You will also get downloadable Aspen Plus simulation files and helpful quick starter templates Inside you will learn how to Get up and running with Aspen Plus Accurately model physical property Work with Aspen Plus problem solving tools Create equilibrium and rate based

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