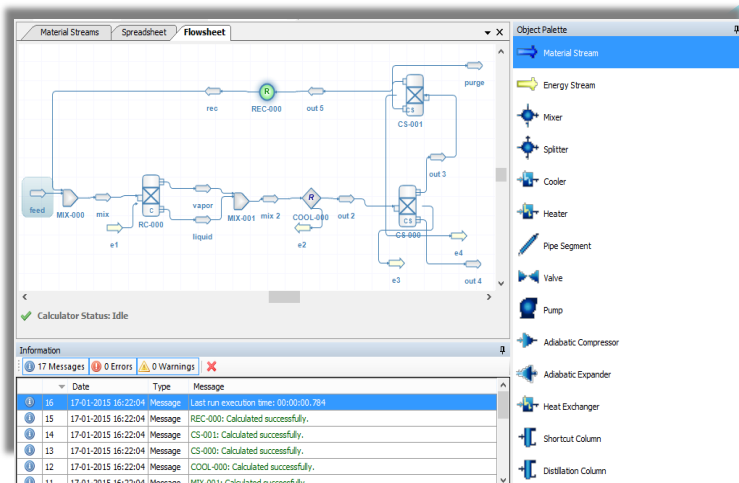


DWSIM Chemical Process Simulator

Open source alternative to Aspen Plus



The recycle and purge in synthesis of Methanol

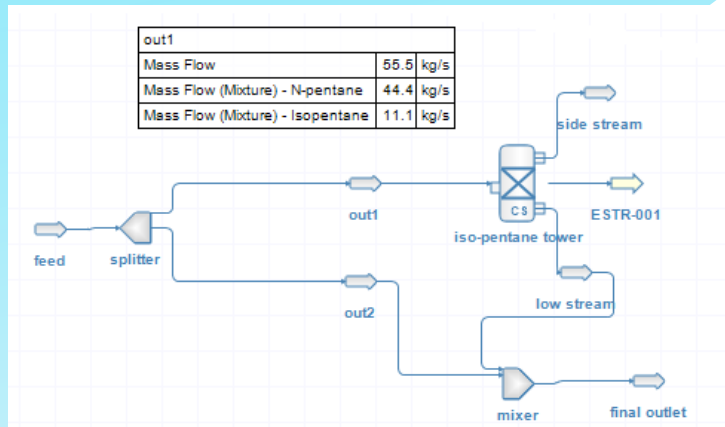
Features

DWSIM has an easy-to-use graphical interface with many of the features present in commercial simulators:

- VLE, VLLE, SLE & Aqueous Electrolyte calculations using Equation of State, Activity Coefficient & Chao - Seader models, Rigorous Distillation/ Absorption Column models
- Supports CAPE-OPEN Unit Operations and Thermo 1.0/1.1 Property Packages
- Exposes Property Packages as CAPE-OPEN 1.1
- Thermodynamic Equilibrium and Property Calculators
- Supports ChemSep's Component Database and Column Model
- Support for Chemical Reactions and Reactors
- DWSIM supports the following Flash types: Pressure - Temperature (PT), Pressure - Enthalpy (PH), Pressure - Entropy (PS), Pressure - Vapor Fraction (PVF) and Temperature - Vapor Fraction (TVF)

Overview

DWSIM is an open-source CAPE-OPEN compliant chemical process simulator for Windows, Linux and Mac. Built on the top of the Microsoft .NET 4.0 and Mono Platforms and featuring a rich Graphical User Interface (GUI), DWSIM allows chemical engineering students and chemical engineers to better understand the behavior of their chemical systems by using rigorous thermodynamic and unit operations models with no cost at all.



Separation of components of the feed

Downloads

You can get started by visiting

http://dwsim.inforside.com.br/wiki/index.php?title=Main_Page.

It will give you a general idea of DWSIM features. All the links from Downloads to Tutorials can be found on the left hand side pane.

Support for

DWSIM by FOSSEE team (IIT Bombay)

FOSSEE team (Free and Open Source Software for Education) aims to:

- Allow freedom in education.
- Improve the quality of instruction and learning.
- Create a constructive and innovative learning and teaching environment.
- Enable and motivate students, faculty & others to use open source software tools instead of proprietary software.

Activities of FOSSEE

Textbook companion, Lab migration project, Workshops & Forums

Textbook companion

The Textbook Companion (TBC) activity aims to port solved examples from standard textbooks using a Free and Open source software.

Create Textbook Companions for DWSIM. Earn attractive honorarium and certification.

Objectives:

- Make individuals learn FOSS through a practical approach
- Provide a huge database of Textbook Companions as a learning resource
- To make it easy for users of such text-books to start using FOSS
- To improve the documentation available for FOSS

Lab Migration

Migrate labs that use proprietary software to DWSIM. Colleges can save a large amount of money that is spent on procuring licenses for commercial software by switching to FOSS.

The Lab Migration team helps in the following ways:

- Provide suggestions on the different ways FOSS can be implemented in the laboratory
- Coordinate the migration of the lab to a FOSS only laboratory
- Provide solutions to the lab's problem statements

<http://dwsim.fossee.in>

General Queries:

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