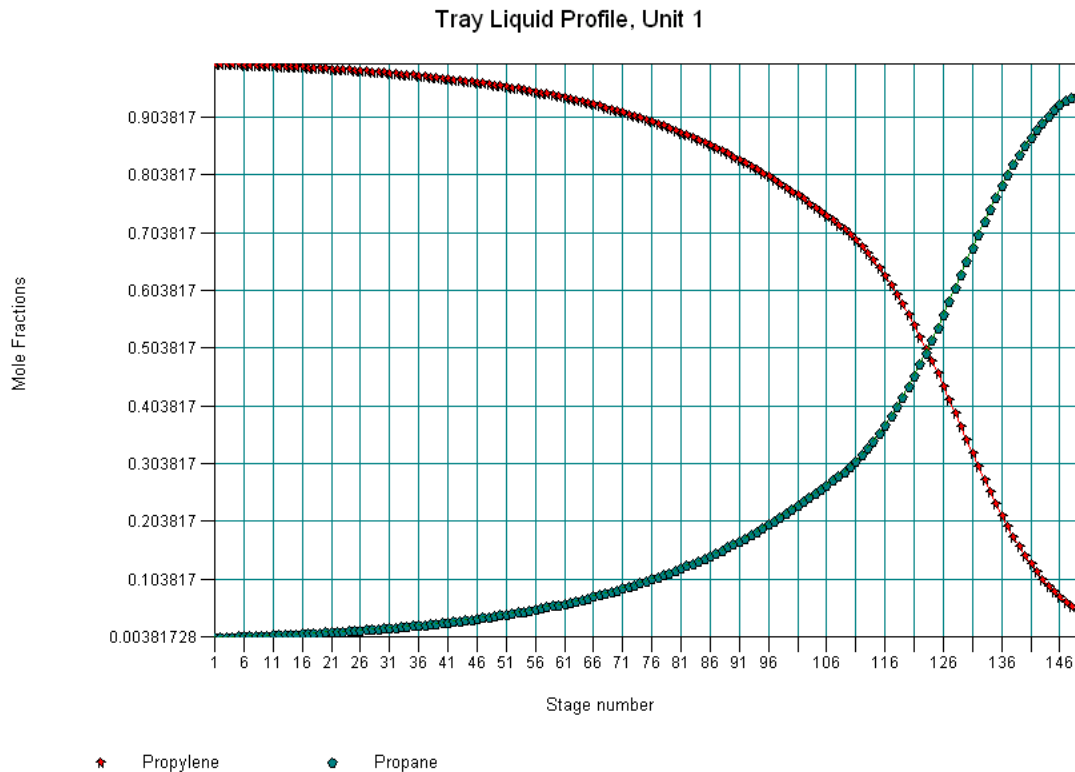


Propane-Propylene Splitter



DESCRIPTION:

Propane and propylene are very difficult to separate one from another, as they are close-boiling components. Nonetheless, distillation at elevated pressure is a common technology, provided sufficient number of trays exists in the distillation column.

Calculations of a 148 actual-tray tower are presented in this example. The SCDS distillation model was used to accommodate big number of trays, and to account for actual trays.

Propane/propylene and ethane/ethylene vapor-liquid equilibria are affected by interactions between the components. Special Binary Interaction Parameters for the Peng-Robinson Equation-Of-State were used to reflect these non-idealities.

