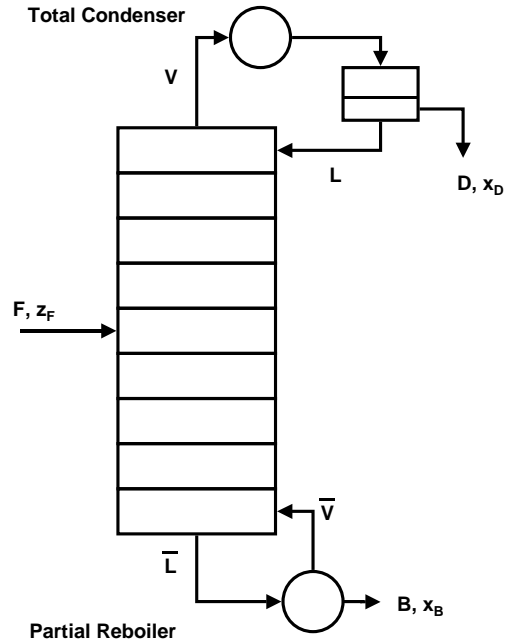


**CHE 305 – Separation Processes**  
**Spring 2010 – In Class Exercise on Distillation III**



Given the XY phase diagram for separation of a binary mixture, determine:

- a.  $x_D$  and  $x_B$
- b. the reflux and boilup ratios

The feed enters at the optimum location, and the percent vaporization of the feed stream is 40%. What is the feed composition? What is the location of the feed tray?