

DEPARTMENT OF CHEMICAL ENGINEERING
CHL762 MAJOR TEST

4-5-10

Duration: 2 hrs

Max. marks: 50

1. In the unsteady state distillation column model for benzene, toluene, and xylene, incorporate reboiler level dynamics and control. Assume the heating coils are always fully dipped in the liquid portion of the reboiler.

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2. Modify the unsteady state axial dispersion model for humidification /dehumidification in a countercurrent flow packed column assuming that the feed gas contains only steam instead of air and water vapor , but the feed solvent contains water and dissolved carbon dioxide at a known concentration.

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