

otherwise b= 8a-c2 and ean of Bripping line 7 = Slope (x-xw) + xw Slope = (b-xw) Xww bottom ted fraction

Jos seal cope: Egim egn t= (RATION gammag) t= xxx2

Tgamal) K Yaxk $K = P_1(Sqd)$, $\sigma = \emptyset_1$ $P_2(Sqd)$ \emptyset_2 \$1 = e(21-1- log(21-81)-9181/21) 42 - e(22-1- log(22-82) - 22B2/22) j ue are using 2 tov acetone and 2 for choroform TCPE, TCZ PCZ R are taken from daja available online.

Page No ... -> 100000 pascal for chloro John 62RT 1-062 in case

Aim:

- 1. Actual number of stages(trays) required to achieve separation(with graph) in a Distillation column with the help of McCabe-Thiele method.
- 2. Minimum number of stages(trays) required to achieve their separation (with graph)
 - 3. Minimum Reflux Ratio

Azeotrope tables - Wikipedia Data taken from here.

References used:-

McCabe-Thiele Plot | Neutrium

https://youtu.be/7e2iiaEcKeU

https://youtu.be/rnTL-wMhsWk

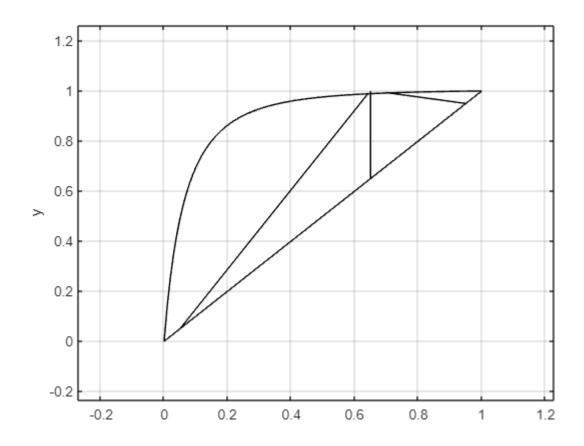
Work done by us:-

Harjap:- Feed line equation , enriching line equation , stripping line equation.

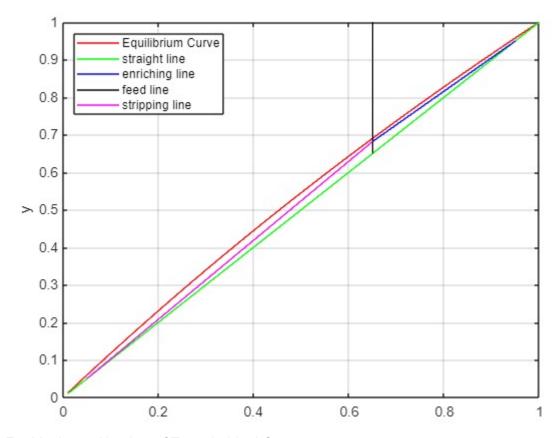
Aditya: - Stages counting for top and bottom stages.

And other things taken from previous assignment.

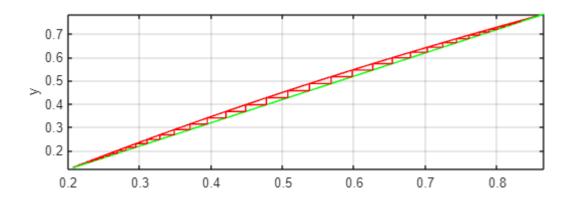
LINE PLOT FOR REAL CASE:



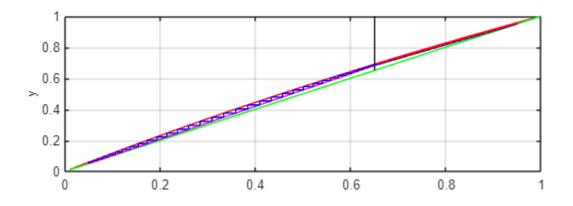
Set Up for ideal Case

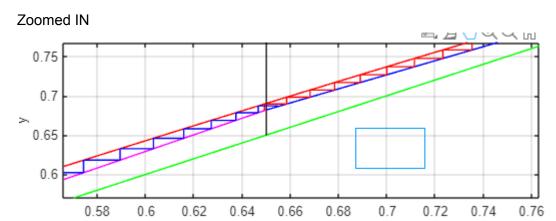


For Maximum Number of Trays in Ideal Case



TRAY Diagram for ideal Case





For Non-Ideal Solution Case , **Enriching section str**ays: