EXERCISE 1

2 FILH THEORY

volumatric onerall cote of dampe

Ps = portal presure of A

Ka = mass harefer evellibert (par phose)

Ki = man house esellicient (liquist place)

a = gas/liquil intenfecial and per unit of volume

HA = Henry's enumber

K'= Vinelic consert (second order topelion)

Je = liquist volume proction

CB = eou cealables of year's B

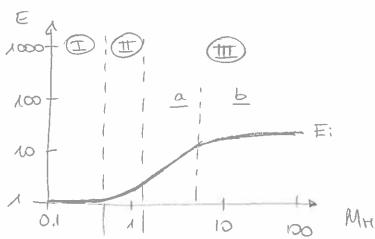
pseudo Zud

K'= K.G

everything is theown, but - (ENHANCING FACTOR)

HH = HATTA LED BUWS

| Ei = E@ infinitely fell cleaning



if
$$M_{H} < 1$$
 / if $M_{H} > 0.3$ $E = 1$
if $M_{H} > 0.3$ $E = 1 + \frac{M_{H}^{2}}{3}$

we do not Krow this value

Solution: iterative procedure

Iteralie procedure

- 6) Reject up to consequence

EXERUSE 2

CO-CURRENT BUBBLE TOWER

Sometimes
$$\int \frac{dF_A^{(c)}}{dV} = -\pi$$

in case of $\int \frac{dV}{dV} = -\pi$

opholions $\int \frac{dF_B^{(c)}}{dV} = -b\pi$

opholions $\int \frac{dX_B}{dV} = -b\pi$
 $\int \frac{dV}{dV} = \pi$
 $\int \frac{dV}{dV} = \pi$

$$\frac{1}{100} \frac{d y_A}{d V} = -rc$$

$$\begin{aligned}
JA &= PA \\
A &= P \\
A &=$$

$$\frac{dPA}{dV} = -\frac{ProT}{Frot}$$

$$\frac{dCB}{dV} = -\frac{CTOT}{Ftot}$$

$$\frac{dCC}{dV} = +\frac{CTOT}{Ftot}$$

$$\frac{dCC}{dV} = +\frac{CTOT}{Ftot}$$

$$\begin{array}{c|c}
(+) & PA(V=0) = PA^{in} \\
CB(V=0) = CB^{in} \\
CC(V=0) = 0
\end{array}$$

EXERCISE 3

COUNTER - CURRENT CONFIGURATION

$$\frac{1}{1} \int_{A}^{\infty} \left(\frac{1}{1} \right) \left(\frac{1}{1}$$

$$\frac{dPA}{dV} = + \frac{PTOT}{F_{tot}} T$$

$$\frac{dC_{c}}{dV} = - \frac{CTOT}{F_{tot}} T$$

$$\frac{dC_{c}}{dV} = + \frac{CTOT}{F_{tot}} T$$

$$\left(\begin{array}{c}
A \\
CB \\
CCC \\$$

TII-9

STOP

- 1. Juess a volue of Paut
- 2. Voe the following initial earlier for previous of A (inhead of \triangle) $PA(V=0) = PA^{out} \quad (pressed)$
- 3. bolue the corresponding ywhere of
- 4. Check the euror Lecours of the

- 5. If the enou E is ulliverthey much, solution OK!
- -6. Otherwise quess a new colle

under-relevation foctor (energy to sufficiently much)

