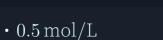
FT II – Teste 2024.2 Resolução

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Conteúdo

Questão 1



• $T = 298.15 \,\mathrm{K}$

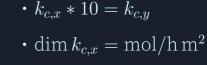
• P=3 atm



• $y_A = 20\%$

• $x_A = 1\%$

 $\mathbf{K}_c = 8 \, \mathrm{E}^{-5} \, \frac{\mathrm{mol}}{\mathrm{s.cm.atm}}$



• $y_A^* = 400 x_A$

Q1 a.

 k_G e k_L

Resposta

$$K_G (P_{A,G} - P_A^*) = K_G (y_A P - P_A^*) =$$

$$= N_A =$$

$$= K_y (y_A - y_A^*) = K_y (y_A - 400 x_A) \Longrightarrow$$

 $\implies K_G (y_A P - P_A^*) =$

Q1 b.

Fluxo de A no topo da coluna

Resposta

 $N_{\scriptscriptstyle \perp}$

Questão 2

· Remover A da fase gasosa

• $T = 288.15 \,\mathrm{K}$

• P=1 atm

• $P_{A_{r}} = 70 \, \text{mmHg}$

sosa

• $x_A = 0.5\%$

• H = 0.15 atm m³/mol

• 40% da resistencia da fase ga-

• $k_G = 2 \,\mathrm{E}^{-5} \, \frac{\mathrm{mol}}{\mathrm{s.m^2.atm}}$