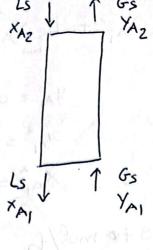
Coluna enchimento

Contracorrete

Absorver 99%.



· Cálculo de YAZ

$$\frac{1}{4} = \frac{0.5}{1 - 0.5} = 1$$

· Verificar se G, = 62

$$y_{A_2} = \frac{y_{A_2}}{1 + y_{A_2}}$$
 Proqué?

$$G_z = \frac{100 \times 0.01}{0.01} = 100 \text{ m/h}$$

$$G_1 = \frac{100 \times 1}{0.5} = \frac{200 \text{ mol}}{\text{h}}$$

links operatoric

$$Y_{A2} = Y_{A2} (1 + Y_{A2})$$

$$Y_{A2} = \frac{Y_{A2}}{1 + Y_{A2}}$$

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$$y_{A_1} = 0.0352$$
 $y_{A_2} = 0.013$

$$\frac{1}{1-\frac{1}{1}} = \frac{0.0352}{1-0.0352} = 0.0365$$

$$\frac{1}{42} = \frac{\frac{1}{1-\frac{1}{2}}}{\frac{1-\frac{1}{2}}{1-\frac{1}{2}}} = \frac{0.013}{1-0.013} = 0.013$$

$$L_S = \frac{37.5}{18 \times 10^3} = 20.83 \text{ mol/h}$$

$$G_{5} Y_{A_{1}} = G_{1} Y_{A_{1}}$$

$$G_{5} = 43.6 \frac{Y_{A_{1}}}{Y_{A_{1}}} (1 - Y_{A_{1}})$$

$$G_{5} = \frac{43.6 \times 10 \times 1}{0.082 \times (273.15 + 20)} (1 - 0.0352) = \frac{1750 \text{ ml}}{h}$$

$$R = 0.082 \frac{\text{atm dm}^3}{\text{mol } K}$$

a)
$$G_5 Y_{A_1} + L_5 \times A_2 = L_5 \times A_1 + G_5 Y_{A_2}$$

 $X_{A_1} = 0.0198$

b)
$$G_5 Y_{A_1} = L_{5min} X_{A_1}^* + G_5 Y_{AZ}$$

 $X_{A_1}^* = \frac{Y_{A_1}}{1.3} = 0.028$

Absorver 95% Ls = 1.2 Lsmin G = 1000 mol/h 3/1= 0.02 4x = 2.5 7A 1000 × 0.02 = Gs × 0.02 G JA = GS YA1 Gs = 580 mol/h (vno 2).) G = Gz = 1000 mol/4 L, = L2 Linha operationia Gya, + L 2/2 = Gyaz + L 2/4, 0.02 = 2.5 7A. & y = 0.05 & JAI 18 (24 = 0.008 YAZ = 0.001 $L_{min} = \frac{1000 \times (0.02 - 0.001)}{0.008} = 2375 \text{ m}/4$ $\frac{L_{min}}{G} = 2.375$ $\Rightarrow \frac{L}{G} = 1.2 \times 2.375 = 2.85$ $\frac{L}{G} = 2.85 = \frac{0.02 - 0.001}{24}$ 24 = 0.0067 $2.85 = \frac{4x - 0.001}{x}$ $3 = 2.85 \frac{1}{x} + 0.001$ X = 44-0.001 $y_{A}^{*} = 2.5 \chi_{A} = \frac{7.5}{285} (y_{A} - 0.001)$

4x = 0.877 ya - 0.000877

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$$N_{0G} = \int_{A_{0}}^{A_{0e}} \frac{dy_{A}}{y_{a}^{+} + y_{A}^{+}} = \int_{0.001}^{0.02} \frac{dy_{A}}{y_{a}^{-} + 0.000877} = \int_{0.123}^{0.02} \frac{dy_{A}}{0.0240.000877} = \int_{0.123}^{0.02} \frac{dy_{A}}{0.123 + 0.00240.000877} = \int_{0.123 + 0.001}^{0.123 + 0.000877} \frac{dy_{A}}{0.123 + 0.001} = \int_{0.123 + 0.001}^{0.000877} \frac{dy_{A}}{0.123 + 0.001} = \int_{0.123 + 0.001}^{0.000877} \frac{dy_{A}}{0.123 + 0.001} = \int_{0.123 + 0.001}^{0.000877} \frac{dy_{A}}{0.123 + 0.000877} = \int_{0.123 + 0.001}^{0.000877} \frac{dy_{A}}{0.123 + 0.000877} = \int_{0.123 + 0.000877}^{0.000877} \frac{dy_{A}}{0.000877} = \int_{0.000877}^{0.000877} \frac{dy_{A}}{0.000877} = \int_{0.000877}^{0$$

$$y_{A_1} = 0.02$$
 $y_{A_2} = 0.0067$ $y_{A_2} = 0.001$ $y_{A_2} = 0$

$$y_{A_1} - y_{A_1}^* = 0.02 - 2.5 \times 0.0067 = 0.00325$$

 $y_{A_2} - y_{A_2}^* = 0.001$

$$\Delta 4 = \frac{0.00325 - 0.001}{20.00325} = \frac{0.06225}{1.178625}$$

$$N_{\alpha} = \frac{0.02 - 0.001}{0.00191} = \frac{0.019}{0.00191} = \frac{9.95}{0.00191}$$