$$\frac{H_{SO2}}{H_{NH_3}} = \frac{1}{0.018}$$

$$D_{502} = 0.041 \text{ m/B}$$

 $D_{NH_3} = 0.083 \text{ m/B}$

$$\frac{1}{0.768} = \frac{1}{k_{GSO_z}} + \frac{H_{SO_z}}{k_L}$$

$$k_{LSO2} = k_{LNH3}$$

$$1.302 = 0.651 + 0.651$$

$$\frac{1}{2.217} = \frac{1}{k_{GNH_3}} + \frac{H_{NH_3}}{k_L}$$

$$\frac{H_{502}}{k_L} = 0.651$$

$$\frac{1}{2.217} = \frac{1}{k_G N H_3} + \frac{0.018 \text{ Hso2}}{1 \text{ Hso2}/0.651}$$

$$\frac{1}{k} = 0.651$$

$$= 0.651 \quad k_{6502} = 1.536 \quad \frac{\text{kwl}}{\text{km}^2 \text{ atm}}$$

$$\frac{1.536}{2.276} = \frac{0.041}{0.083} \times 2.056$$

$$\alpha = 0.56$$

5h = 0.023 Re 5c 0.44

2.
$$k_{\mathcal{C}}(PA_{G} - PA^{*}) = k_{\mathcal{C}}(CA_{G} - CA_{G}^{*})$$

$$k_{\mathcal{C}_{G}}(CA_{G} - CA_{G}) = k_{\mathcal{C}_{G}}(CA_{G} - CA_{G}^{*})$$

$$PA_{G} = H \times_{A_{G}} = 10^{5} H \times_{A_{G}}$$

$$k_{L} \propto \sqrt{2} \qquad k_{L_{02}} = 6.2 \times 10^{3} \text{ m/s}$$

$$k_{L} = \frac{k_{L_{02}}}{\sqrt{2.1 \times 10^{5}}} \cdot \sqrt{2} \qquad k_{L} = \frac{0.2 \times 10^{3} \text{ M}_{2}}{\sqrt{2.1 \times 10^{5}}} \cdot 4.364 \sqrt{2} \text{ L}$$

$$b = \frac{10^{5}}{C_{L} \text{ RT}} = 7.39 \times 10$$

$$c_{L} = \frac{9 \text{ Hm}}{RT}$$

$$c_{L} = \frac{9 \text{ Hm}}{RT} \cdot \frac{1}{RT} \cdot \frac{1}{2.29 \times 10^{3}} \cdot \frac{1}{8.344 \times 293 \times 10^{3}}$$

$$c_{L} = \frac{5.94 \text{ M}_{2}}{8.344 \times 293 \times 10^{3}} \cdot \frac{1}{8.344 \times 2$$

ver ficheiro Excel

$$\frac{1}{K_{G}} = \frac{1}{a \cdot 6^{0.8}} + b$$

$$y = \frac{1}{a} 6^{-0.8} + b$$

$$4 \times 10^7 = \frac{1}{9} 6.31 + 6$$

$$b = \frac{1.19 \times 10^{4} - \frac{13.13}{a}}{a}$$

$$1 \times 10^7 = \frac{6.31}{0} + 1.19 \times 10^7 - \frac{13.13}{0}$$

$$13.13 - 6.31 = 0.19 \times 10^9$$

$$\frac{13.13 - 6.31}{0.19 \times 10^{4}} = 0.19 \times 10^{4}$$
 $\alpha = \frac{13.13 - 6.31}{0.19 \times 10^{4}} = 3.58 \times 10^{4}$

$$b = 1.19 \times 10^{4} - \frac{13.13}{3.58 \times 10^{3}} = 8.24 \times 10^{3}$$

$$k_{G} = a + c^{0.8} = 2.06 \times 10^{3} \frac{\text{Ksf}}{\text{m}^{2} \text{s Pa}}$$

$$k_{L} = \frac{+}{b} = \frac{3}{8}$$

$$\frac{1}{4} = \frac{1}{5}$$
 $\frac{1}{8} = \frac{20}{8.44 \times 10^3} = 2.43 \times 10^{-3} \text{ m/s}$