



$$w_1 = 1 \text{ L/s} \left\{ \begin{array}{l} x_{Sr1} = 4'85 \cdot 10^{-4} \text{ g/L} \\ x_{Ca1} = 1 \text{ mg/L} \end{array} \right. \quad w_3 = w_4$$

1B)

* Separar el 97% del Ca y todo el Sr.

$$w_4 = \text{---} \left\{ \begin{array}{l} x_{Sr4} = 0 \\ x_{Ca4} = 0'03 \text{ mg Ca/L} \end{array} \right.$$

$$w_5 = 1 \text{ L/s} \left\{ \begin{array}{l} x_{Sr5} = ? \\ x_{Ca5} = 0'05 \text{ mg Ca/L} \end{array} \right.$$

1C) Analiza las unidades

1D) B al proceso
 1E) B al reactor

NO se puede

$$w_4 + w_2 = 1 \quad (\perp)$$

1F)

$$x_{Sr4} \cdot w_4 + x_{Ca2} \cdot w_2 = x_{Ca5} \cdot w_5$$

$$1 \cdot \omega_2 + 0'03 \cdot \omega_4 = 0'05 \cdot 1 \quad (2)$$

Sabiendo que $\omega_3 = \omega_4$

G Asumiendo a (1)

$$1 \cdot \omega_3 = \omega_2$$

Asumiendo a (2)

$$1 \cdot \omega_3 + 0'03 \cdot \omega_3 = 0'05$$

$$\omega_3 = 0'984/1 \quad ; \quad \omega_2 = 0'02 \text{ L/1}$$

H

$$X_{Sr4} \cdot \omega_4 + X_{Sr2} \cdot \omega_2 = X_{Sr5} \cdot \omega_5$$

$$0 \cdot \omega_4 + (4'85 \cdot 10^{-4}) \cdot 0'02 = X_{Sr5} \cdot 1$$

I \rightarrow

$$X_{Sr5} = 9'7 \cdot 10^{-6} \text{ g/L}$$