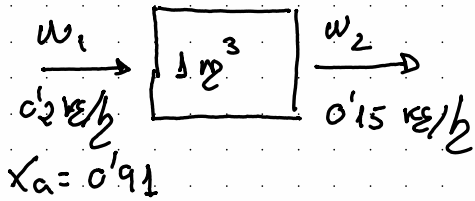


A



$$\rho = 1100 \text{ kg/m}^3$$

$$x = 0.7 \rightarrow t = ?$$

B Concentraci3es $\rightarrow \frac{\text{masa aceite}}{\text{masa total}}$

C B. al total (acumulaci3)

$$w_1 = w_2 + \frac{dm_{ac}}{dt} ; \text{unidades} = 0 \text{ kg}$$

$$0.05 = \frac{dm_{ac}}{dt}$$

D

$$\left. \begin{array}{l} m_{ac} = 0.05t \\ m_R = 1100 + 0.05t \end{array} \right\} \begin{array}{l} \text{E} \\ \text{kg (kg)} \\ t \text{ (h)} \end{array}$$

E B. al aceite (acumulaci3)

$$x_{a1} w_1 = \frac{dm_{ac}}{dt} + x_{a2} w_2 ; \text{unidades } 0 \text{ kg}$$

$$0'91 \cdot 0'2 = \frac{dM_{ac}}{dt} + \phi$$

[F] $\int_{\phi}^t 0'182 dt = \int_{\phi}^{M_{ac}}$

$$M_{ac} = 0'182t \quad \begin{cases} M \text{ (kg)} \\ t \text{ (h)} \end{cases}$$

[G]

$$0'7 = \frac{0'182t}{1100 + 0'05t}$$

$$770 + 0'035t = 0'182t ; 770 = 0'147t$$

$$t = 5238,1 \text{ h}$$

[H] ϕ kg de acete rezultă?

$$x_{ac1} \cdot w_1 \cdot t = 0'91 \frac{\text{kg ac}}{\text{kg flux}} \times 0'2 \frac{\text{kg flux}}{\text{h}} \cdot 5238,1 \text{ h} = 953'33 \text{ kg ac}$$

[I]

$$953'33 \text{ kg ac} \times \frac{5 \text{ mediires}}{100 \text{ kg ac}} = 47'67 \text{ mediires}$$