

15-12  $\tau = 5 \text{ hod}$



$$(m_c + m_{AE}^*) = 0,8 \cdot (m_c + m_{AE})$$

$$W_{Ai} = 28,5 \text{ hm \%}$$

$$W_{Ac} = 20 \text{ hm \%}$$

$$W_A^* = 2,5 \text{ hm \%}$$

$$W = \frac{m_A}{m_c} = \frac{w \cdot (m_A + m_c)}{(1-w) \cdot (m_A + m_c)} = \frac{w}{1-w}$$

$$m_c + m_c \cdot W_{AE} = 0,8 \cdot (m_c + m_c \cdot W_{Ai})$$

$$W_{Ai} = \frac{0,285}{1-0,285} = 0,3986$$

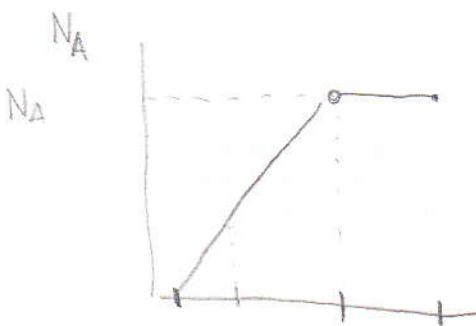
$$1 + W_{AE} = 0,8 \cdot (1 + W_{Ai})$$

$$W_{Ac} = \frac{0,2}{1-0,2} = 0,25$$

$$W_{AE} = 0,8 \cdot (1 + 0,3986) - 1$$

$$W_A^* = \frac{0,025}{1-0,025} = 0,02564$$

$$W_{AE} = 0,1189$$



$$W_A^* \quad W_AE \quad W_Ac \quad W_Ai$$

$$N_A^I - N_A = - \frac{dW_A}{d\tau}$$

$$1. \text{ doba : } N_A^I = k_1$$

$$2. \text{ doba : } N_A^I = k_2 \cdot (W_A - W_A^*)$$

$$W_A \equiv W_{Ac} \Rightarrow k_2 \cdot (W_{Ac} - W_A^*) = k_1$$

$$\int_0^{\tau_1} N_A^I \cdot d\tau = \int_{W_Ai}^{W_{Ac}} -dW_A$$

$$\int_{\tau_1}^{\tau_2} N_A^I \cdot d\tau = \int_{W_{Ac}}^{W_{AE}} -dW_A$$

$$k_1 \tau_1 = W_{Ai} - W_{Ac}$$

$$k_2 \cdot (\tau_2 - \tau_1) = - \int_{W_{Ac}}^{W_{AE}} \frac{dW_A}{W_A - W_A^*}$$

$$X \equiv W_A - W_A^*$$

$$dX \equiv dW_A$$

$$k_2 \cdot (\tau_2 - \tau_1) = - \int_{W_{Ac}}^{W_{AE}} \frac{dX}{X} = - \left[ \ln X \right] = \left[ \ln (W_A - W_A^*) \right]_{W_{AE}}^{W_{Ac}}$$

[15-12]

str. 2.

$$\textcircled{1} \quad k_1 \tau_1 = W_{Ai} - W_{Ac}$$

$$\textcircled{2} \quad k_2 \cdot (W_{Ac} - W_A^*) = k_1$$

$$\textcircled{3} \quad k_2 (\tau_2 - \tau_1) = \ln \frac{W_{Ac} - W_A^*}{W_{AE} - W_A^*}$$

$$k_2 \cdot (W_{Ac} - W_A^*) = \frac{W_{Ai} - W_{Ac}}{\tau_1}$$

$$\frac{W_{Ai} - W_{Ac}}{W_{Ac} - W_A^*} = \frac{\tau_2 - \tau_1}{\tau_1} = \ln \frac{W_{Ac} - W_A^*}{W_{AE} - W_A^*}$$

3. kornice

4. ~~zpracování~~ phoménie $k_1, k_2, \tau_1, \tau_2$ zdroje:  $\tau_2$ 

(2)

$$\textcircled{1} \quad \tau_1 = \frac{W_{Ai} - W_{Ac}}{k_1} = \frac{W_{Ai} - W_{Ac}}{k_2 \cdot (W_{Ac} - W_A^*)} \Rightarrow \textcircled{1+2}$$

$$\textcircled{3} \quad k_2 \cdot \tau_2 - k_2 \cdot \frac{W_{Ai} - W_{Ac}}{k_2 \cdot (W_{Ac} - W_A^*)} = \ln \frac{W_{Ac} - W_A^*}{W_{AE} - W_A^*}$$

$$k_2 = \frac{1}{\tau_2} \cdot \left[ \ln \frac{W_{Ac} - W_A^*}{W_{AE} - W_A^*} + \frac{W_{Ai} - W_{Ac}}{W_{Ac} - W_A^*} \right]$$

$$k_2 = \frac{1}{5h} \left[ \ln \frac{0,125 - 0,102564}{0,1189 - 0,102564} + \frac{0,13986 - 0,125}{0,125 - 0,102564} \right] =$$

$$= \frac{1}{5} \cdot [0,87786 + 0,66232] = \underline{\underline{0,30804 \text{ h}^{-1}}}$$

$$k_1 = 0,30804 \cdot (0,125 - 0,102564) = 0,06911 \text{ h}^{-1}$$

$$\tau_1 = \frac{0,3986 - 0,125}{0,06911} = \underline{\underline{2,15 \text{ h}}} \quad (1 \text{ deka sušení})$$

po průzemia o 2h  $\tau_2 = 5+2 = 7 \text{ h}$ 

$$\textcircled{3} \quad 0,30804 \cdot (7 - 2,15) = \ln \frac{0,125 - 0,102564}{W_{AE} - 0,102564} = 1,493994$$

$$0,22436 = 1,4548 \cdot (W_{AE} - 0,102564)$$

$$W = \frac{W}{1+W} = 7 \text{ h} \%$$

$$\underline{\underline{W_{AE} = 0,076}}$$