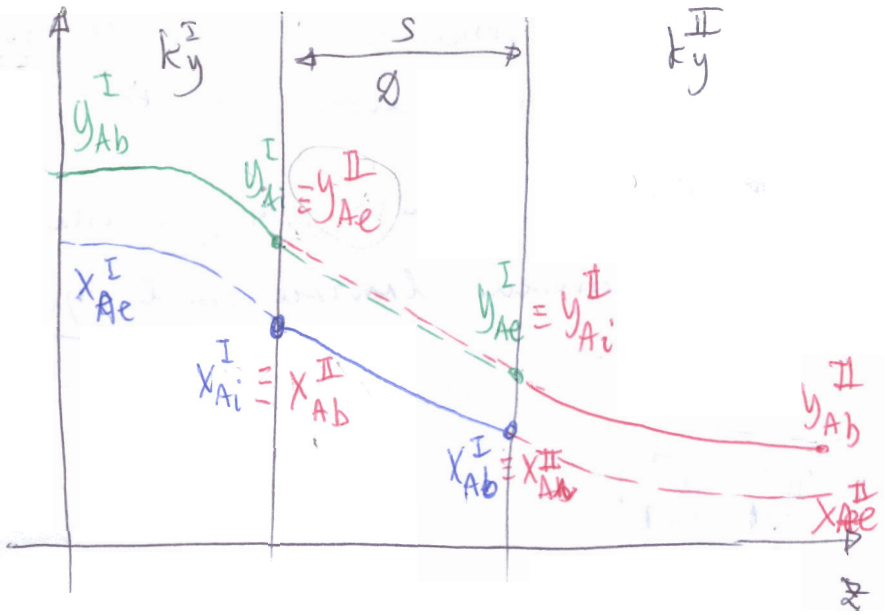
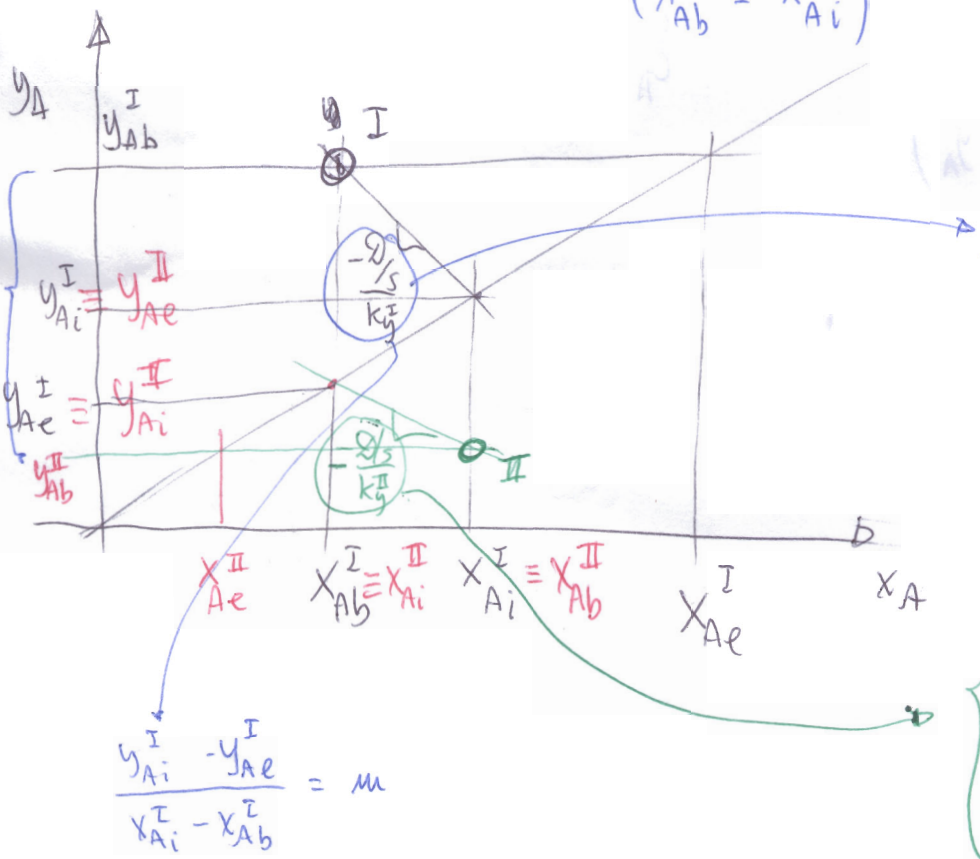


$$N_{Az} = k_y^I \left(y_{Ab}^I - y_{Ai}^I \right) = \frac{\vartheta}{S} \left(x_{Ai}^I - x_{Ab}^I \right) = k_y^{II} \left(y_{Ai}^{II} - y_{Ab}^{II} \right)$$

$$\left(x_{Ab}^{II} - x_{Ai}^{II} \right)$$



$$\begin{cases} k_y^I \left(y_{Ab}^I - y_{Ai}^I \right) = \frac{\vartheta}{S} \left(x_{Ai}^I - x_{Ab}^I \right) \\ -\frac{y_{Ab}^I - y_{Ai}^I}{x_{Ab}^I - x_{Ai}^I} = \frac{\vartheta/S}{k_y^I} \end{cases}$$

$$\begin{cases} \frac{\vartheta}{S} \left(x_{Ab}^{II} - x_{Ai}^{II} \right) = k_y^{II} \left(y_{Ai}^{II} - y_{Ab}^{II} \right) \\ -\frac{y_{Ai}^{II} - y_{Ab}^{II}}{x_{Ai}^{II} - x_{Ab}^{II}} = \frac{\vartheta/S}{k_y^{II}} \end{cases}$$

$$\frac{y_{Ai}^I - y_{Ae}^I}{x_{Ai}^I - x_{Ab}^I} = m$$

$$N_{Az} = K_y \left(y_{Ab}^I - y_{Ab}^{II} \right)$$

$$y_{Ab}^I - y_{Ab}^{II} = \left(y_{Ab}^I - y_{Ai}^I \right) + \overbrace{\left(y_{Ai}^I - y_{Ae}^I \right)}^{m \left(x_{Ai}^I - x_{Ab}^I \right)} + \left(y_{Ai}^{II} - y_{Ab}^{II} \right)$$

$$\frac{N_{Az}}{K_y} = \frac{N_{Az}}{k_y^I} + \frac{m N_{Az}}{\vartheta/S} + \frac{N_{Az}}{k_y^{II}} \rightarrow \boxed{\frac{1}{K_y} = \frac{1}{k_y^I} + \frac{m}{\vartheta/S} + \frac{1}{k_y^{II}}}$$