$$C_{2,i+1} = C_{2,i} + rac{C_{1,i} - C_{2,i}}{ au} rac{eta}{\left(1 - lpha_1
ight)\left(1 - lpha_1
ight)lpha_2} \; \Delta t$$

$$\beta \nu C_1 = \beta \nu C_2 + (1 - \alpha_1) \alpha_2 V \frac{dC_2}{dt} \Longrightarrow$$

$$\Longrightarrow \beta C_1 = \beta C_2 + (1 - \alpha_1) \alpha_2 \tau \frac{dC_2}{dt} \Longrightarrow$$

$$\Longrightarrow \frac{dC_2}{dt} = \frac{C_1 - C_2}{(1 - \alpha_1) \alpha_2} \beta \Longrightarrow$$

$$\Rightarrow \frac{\mathrm{d}C_2}{\mathrm{d}t} = \frac{C_1 - C_2}{(1 - \alpha_1)\alpha_2 \tau} \beta \implies$$

$$\Rightarrow \frac{\Delta C_2}{\Delta t} = \frac{C_{2,i+1} - C_{2,i}}{\Delta t} = \frac{C_{1,i} - C_{2,i}}{(1 - \alpha_1)\alpha_2 \tau} \beta \implies$$

 $\implies C_{2,i+1} = C_{2,i} + \frac{C_{1,i} - C_{2,i}}{(1 - \alpha_1) \alpha_2 \tau} \beta \Delta t$