

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

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

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

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

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

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