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

$$\nu\, C_1 = \nu\, C_2 + (1-\alpha_1)\,\alpha_2\, V\, \frac{\mathrm{d}C_2}{\mathrm{d}t} \implies$$

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

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

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

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