$$\boldsymbol{C_{2,i+1} = C_{2,i} + \frac{C_{1,i} - C_{2,i}}{\tau} \frac{\beta}{(1-\alpha_1)\,\alpha_2\,(\alpha_3)}\,\Delta t}$$

$$C_1\,\beta\,\nu = C_2\,\beta\,\nu + (1-\alpha_1)\,\alpha_2\,(\alpha_3)\,V\,\frac{\mathrm{d}C_2}{\mathrm{d}t} \implies$$

$$\implies C_1\,\beta = C_2\,\beta + (1-\alpha_1)\,\alpha_2\,(\alpha_3)\,\tau\,\frac{\mathrm{d}C_2}{\mathrm{d}t} \implies$$

$$\implies \frac{\mathrm{d}C_2}{\mathrm{d}t} = \frac{C_1 - C_2}{\tau}\frac{\beta}{(1-\alpha_1)\,\alpha_2\,(\alpha_3)} \implies$$

$$\implies \frac{\Delta C_2}{\Delta t} = \frac{C_{2,i+1} - C_{2,i}}{\Delta t} = \frac{C_{1,i} - C_{2,i}}{\tau}\frac{\beta}{(1-\alpha_1)\,\alpha_2\,(\alpha_3)} \implies$$

$$\implies C_{2,i+1} = C_{2,i} + \frac{C_{1,i} - C_{2,i}}{\tau}\frac{\beta}{(1-\alpha_1)\,\alpha_2\,(\alpha_3)}\,\Delta t$$