$$egin{aligned} C_{2,i+1} &= C_{2,i} + rac{C_{1,i} - C_{2,i}}{ au} rac{eta}{(1-lpha) \ 0.5} \ \Delta t \ & 
u eta C_1 = 
u eta C_2 + (1-lpha) \ 0.5 \ V rac{\mathrm{d} C_2}{\mathrm{d} t} \implies \end{aligned}$$

$$\Rightarrow \beta C_1 = \beta C_2 + (1 - \alpha) 0.5 \tau \frac{dC_2}{dt} \Rightarrow$$

$$\Rightarrow \frac{dC_2}{dt} = \frac{C_1 - C_2}{\tau} \frac{\beta}{(1 - \alpha) 0.5} \Rightarrow$$

$$\Rightarrow \frac{\Delta C_2}{\Delta t} = \frac{C_{2,i+1} - C_{2,i}}{\Delta t} = \frac{C_{1,i} - C_{2,i}}{(1 - \alpha) 0.5 \tau} \beta \Rightarrow$$

 $\implies C_{2,i+1} = C_{2,i} + \frac{C_{1,i} - C_{2,i}}{\tau} \frac{\beta}{(1-\alpha) \ 0.5} \ \Delta t$