

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

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

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

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

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

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