

implicitne

$$\frac{h_{i,t} - h_{i,t-1}}{\Delta t} = es_{i,t} + \sum_j^{inflows} q(h_{j,t})_{j,t}^{in} - q(h_{i,t})_{i,t}^{out} - inf_{i,t}$$

$$\frac{h_{i,t}}{\Delta t} - es_{i,t} - \sum_j^{inflows} q(h_{j,t})_{j,t}^{in} + q(h_{i,t})_{i,t}^{out} + inf_{i,t} = \frac{h_{i,t-1}}{\Delta t}$$

$$\frac{h_{i,t}}{\Delta t} - es_{i,t} - \sum_j^{inflows} ah_{j,t}^b + ah_{i,t}^b + inf_{i,t} = \frac{h_{i,t-1}}{\Delta t}$$

$$h_{i,t} + ah_{i,t}^b \Delta t - \sum_j^{inflows} ah_{j,t}^b \Delta t = h_{i,t-1} + es_{i,t} \Delta t - inf_{i,t} \Delta t$$

$$h_{i,t} + ah_{i,t} h_{i,t}^{b-1} \Delta t - \sum_j^{inflows} ah_{j,t} h_{j,t}^{b-1} \Delta t = h_{i,t-1} + es_{i,t} \Delta t - inf_{i,t} \Delta t$$

$$(1 + ah_{i,t}^{b-1} \Delta t) h_{i,t} - \sum_j^{inflows} (ah_{j,t}^{b-1} \Delta t) h_{j,t} = h_{i,t-1} + es_{i,t} \Delta t - inf_{i,t} \Delta t$$

1	2	3
4	5	6
7	8	9

$$row : 5 \begin{pmatrix} \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots \\ 0 & -ah_{2,t}^{b-1} \Delta t & -ah_{3,t}^{b-1} \Delta t & 0 & ah_{5,t}^{b-1} \Delta t & 0 & \dots \end{pmatrix} \begin{pmatrix} \vdots \\ h_{2,t} \\ h_{3,t} \\ h_{4,t} \\ h_{5,t} \\ \vdots \end{pmatrix} = \begin{pmatrix} \vdots \\ h_{2,t-1} + es_{2,t} \Delta t - inf_{2,t} \Delta t \\ h_{3,t-1} + es_{3,t} \Delta t - inf_{3,t} \Delta t \\ h_{4,t-1} + es_{4,t} \Delta t - inf_{4,t} \Delta t \\ h_{5,t-1} + es_{5,t} \Delta t - inf_{5,t} \Delta t \\ \vdots \end{pmatrix}$$