8. 《) 截断误系

$$R_{i}^{h} = \frac{1}{\tau} \left[u(x_{i}, t_{h+1}) - u(x_{i}, t_{h}) \right] + \frac{1}{h} \left[u(x_{i}, t_{h}) - u(x_{i-1}, t_{h}) \right]$$

$$= \frac{\partial u}{\partial x} (x_{i}, t_{h}) + \frac{\tau}{\tau} \frac{\partial^{2} u}{\partial x^{2}} (x_{i}, \eta_{i}^{h}) + \frac{\partial u}{\partial x} (x_{i}, t_{h}) - \frac{h}{\tau} \frac{\partial u}{\partial x^{2}} (\beta_{i}^{h}, t_{h})$$

$$= \frac{\tau}{\tau} \frac{\partial^{2} u}{\partial t^{2}} (x_{i}, \eta_{i}^{h}) - \frac{h}{\tau} \frac{\partial^{2} u}{\partial x^{2}} (\beta_{i}^{h}, t_{h}),$$

$$\eta_{i}^{h} \in (t_{h}, t_{h+1}), \quad \beta_{i}^{h} \in (x_{i-1}, x_{i}).$$

四没似为

$$\frac{1}{t} \left(\begin{array}{c} h_{+1} - h_{1} \\ V_{i} - V_{i} \end{array} \right) + \frac{1}{h} \left(\begin{array}{c} V_{i} - V_{i-1} \\ V_{i} - V_{i} \end{array} \right) = 0, \quad | \leq i \leq M, \\
V_{i} = \left(\begin{array}{c} V_{i} + V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i} \\ V_{i} \end{array} \right) + \left(\begin{array}{c} V_{i} - V_{i}$$

其水下三元、的边板绝对信,用三角不学式。

(3) ie $R_i = \frac{\pi}{2} \frac{\partial^2 u}{\partial k^2} (\chi_i, \eta_i^k) - \frac{h}{2} \frac{\partial^2 u}{\partial \chi^2} (\chi_i^k, t_h), \quad \text{(sism, osken-1)},$ $e_i^k = u(\chi_i, t_h) - u_i^k, \quad \text{osism, osken-1},$

 $\frac{1}{\tau}(e_{i}^{h+1}-e_{i}^{h})+\frac{1}{h}(e_{i}^{h}-e_{i-1}^{h})=R_{i}^{h}, \quad |sism, \quad osksus-1,$

e: =0, (sism,