

$$U_{i}^{n+1} = U_{i}^{n} - U_{i}^{n} \left(\frac{dt}{dx} \right) \left(U_{i}^{n} - U_{i+1}^{n} \right) + V \left(\frac{dt}{dx} \right)^{2} \right) * \left(\frac{dt}{dx} \right)^{2} \left(\frac{dt}{dx} \right)^{2}$$

$$\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial x} = V \frac{\partial^{2} u}{\partial x^{2}}$$

$$\frac{\partial u}{\partial x} + u \frac{\partial u}{\partial x} = V \frac{\partial^{2} u}{\partial x^{2}}$$

$$\frac{\partial \varepsilon}{\partial \sigma} + \sigma \frac{\partial x}{\partial \sigma} = V \frac{\partial x}{\partial \sigma}$$

$$\frac{U^{n+1}-U^n}{i}+\frac{U^n}{(\frac{dt}{dx})(U^n_i-U^n_{i-1})}=V\frac{dt}{(dx)^2}$$

$$U_{i}^{n+1} = U_{i}^{n} + \Delta t \left(D U_{i+1}^{n} - 2U_{i}^{n} + U_{i-1}^{n} - U_{i}^{n} \left(U_{i}^{n} - q \right) \right)$$

$$\Delta x^{2} \qquad (1 - U_{i}^{n}) + W_{i}^{n}$$

$$\frac{U_{i}^{n+1}-U_{i}^{n}}{\Delta t} + U_{i}^{n} \frac{U_{i}^{n}-U_{i-1}^{n}}{\Delta x} = U_{i+1}^{n} - 2U_{i}^{n} + U_{i-1}^{n}$$