$$\begin{cases} u_{i-\frac{1}{2}}^{R} = u_i - \dfrac{1}{2}\Theta\left(\kappa_i\right)\left(u_{i+1} - u_i\right) \\ u_{i+\frac{1}{2}}^{L} = u_i + \dfrac{1}{2}\Theta\left(\kappa_i\right)\left(u_{i+1} - u_i\right) \end{cases}$$