$$\begin{cases} u_{i+\frac{1}{2}}^{L} = \omega_{0}^{L} \left(\frac{1}{3} u_{i} + \frac{5}{6} u_{i+1} - \frac{1}{6} u_{i+2} \right) + \omega_{1}^{L} \left(-\frac{1}{6} u_{i-1} + \frac{5}{6} u_{i} + \frac{1}{3} u_{i+1} \right) + \\ + \omega_{2}^{L} \left(\frac{1}{3} u_{i-2} - \frac{7}{6} u_{i-1} + \frac{11}{6} u_{i} \right) , \\ u_{i-\frac{1}{2}}^{R} = \omega_{0}^{R} \left(\frac{11}{6} u_{i} - \frac{7}{6} u_{i+1} + \frac{1}{3} u_{i+2} \right) + \omega_{1}^{R} \left(\frac{1}{3} u_{i-1} + \frac{5}{6} u_{i} - \frac{1}{6} u_{i+1} \right) + \\ + \omega_{2}^{R} \left(-\frac{1}{6} u_{i-2} + \frac{5}{6} u_{i-1} + \frac{1}{3} u_{i} \right) . \end{cases}$$