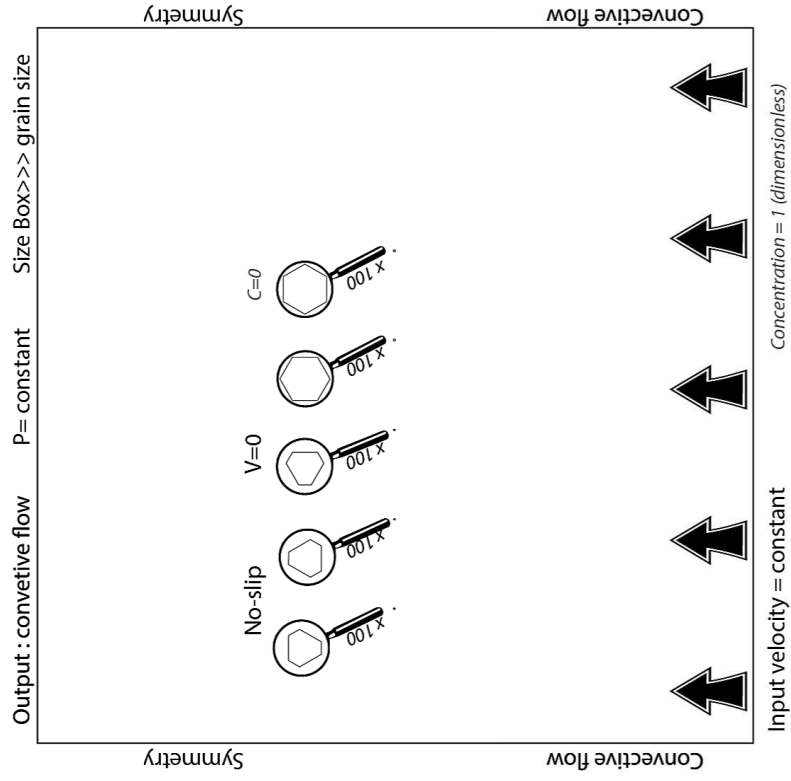
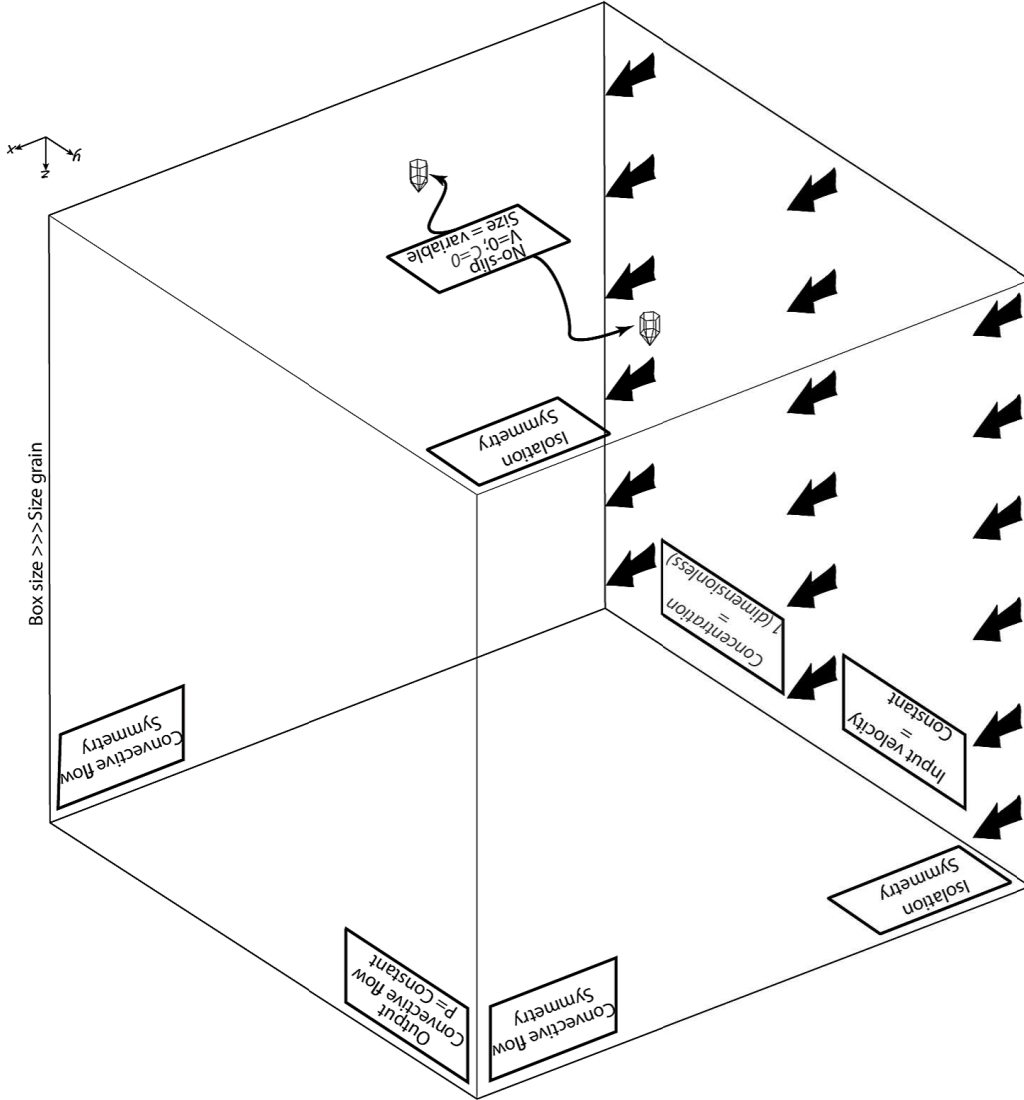




Transport equations

$$\frac{\partial C}{\partial t} = D \nabla^2 C - V \cdot \nabla C$$

Navier Stokes equation

$$\nabla \cdot V_{N.S.} = 0$$

$$\left\{ \begin{array}{l} \frac{\partial V_{N.S.}}{\partial t} + (V_{N.S.} \cdot \nabla) V_{N.S.} = -\frac{1}{\rho} \nabla P + \nu \nabla^2 V_{N.S.} + f \end{array} \right.$$

Dimensionless concentration

$$X(xy) = \frac{C - C_{\infty}}{C_w - C_{\infty}}$$