<div align="center">Memo Of Fluid Simulation</div>

1 Mathematical Background

Conservation of Momentum

$$\nabla \cdot u = 0$$
$$\frac{\partial u}{\partial t} = -(u \cdot \nabla)u - \frac{1}{\rho}\nabla p + \nu\nabla^2 u + f \tag{1}$$

Conservation of Mass