

$$\begin{aligned}
& \underbrace{\partial_t \xi_m}_{Conv u_i} + \underbrace{\partial_{\xi_m} \xi_m + \partial_{x_i} x_i}_{Grad p u_i} \\
& + \underbrace{\frac{1}{Re} \frac{\partial}{\partial \xi_m} \left(J^{-1} \sigma_{ij} \frac{\partial \xi_m}{\partial x_j} \right)}_{Viscu_i} - \frac{J^{-1} \rho \delta_{i2}}{Fr^2} \, ,
\end{aligned} \tag{63-2}$$

$$\sigma\tau\left(\underbrace{\frac{\partial x_i}{\partial \xi_m}}_{ConvU_i}+\underbrace{\frac{\partial x_i}{\partial \xi_m}\frac{\partial x_i}{\partial \xi_m}}_{GradpU_i}+\underbrace{\frac{1}{Re}\frac{\partial \xi_j}{\partial x_i}\frac{\partial}{\partial \xi_m}\left(J^{-1}\sigma_{il}\frac{\partial \xi_m}{\partial x_l}\right)}_{ViscU_i}-\frac{\partial \xi_j}{\partial x_2}\frac{J^{-1}\rho}{Fr^2}\right).\tag{64-2}$$