Continuity:
$$\frac{\partial \rho}{\partial t} + \frac{\partial (\rho u)}{\partial x} + \frac{\partial (\rho w)}{\partial z} = 0$$

X - Momentum:
$$\frac{\partial(\rho u)}{\partial t} + \frac{\partial(\rho u^2)}{\partial x} + \frac{\partial(\rho uv)}{\partial y} + \frac{\partial(\rho uv)}{\partial z} = -\frac{\partial\rho}{\partial x} + \frac{1}{\text{Re}_r} \left[\frac{\partial\tau_{xx}}{\partial x} + \frac{\partial\tau_{xy}}{\partial y} + \frac{\partial\tau_{xz}}{\partial z} \right]$$

$$Y - Momentum: \frac{\partial(\rho v)}{\partial t} + \frac{\partial(\rho u v)}{\partial x} + \frac{\partial(\rho u v)}{\partial y} + \frac{\partial(\rho v^2)}{\partial y} + \frac{\partial(\rho u w)}{\partial z} = -\frac{\partial\rho}{\partial y} + \frac{1}{Re_r} \Big[\frac{\partial\tau_{xy}}{\partial x} + \frac{\partial\tau_{yy}}{\partial y} + \frac{\partial\tau_{yz}}{\partial z} \Big]$$

$$Z-Momentum: \frac{\partial(\rho w)}{\partial t} + \frac{\partial(\rho uw)}{\partial x} + \frac{\partial(\rho uw)}{\partial y} + \frac{\partial(\rho uw)}{\partial z} = -\frac{\partial\rho}{\partial z} + \frac{1}{Re_r} \Big[\frac{\partial\tau_{xz}}{\partial x} + \frac{\partial\tau_{yz}}{\partial y} + \frac{\partial\tau_{zz}}{\partial z} \Big]$$

Energy:
$$\frac{\partial(E_t)}{\partial t} + \frac{\partial(uE_t)}{\partial x} + \frac{\partial(vE_t)}{\partial y} + \frac{\partial(wE_t)}{\partial z} = -\frac{\partial(u\rho)}{\partial x} - \frac{\partial(v\rho)}{\partial y} - \frac{\partial(w\rho)}{\partial z} - \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_y}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial y} + \frac{\partial q_z}{\partial z} \right] + \frac{1}{Re_rPr_r} \left[\frac{\partial q_x}{\partial x} + \frac{\partial q_z}{\partial z} + \frac{\partial$$

$$\frac{1}{Re_r} \left[\frac{\partial}{\partial x} (u\tau_{xx} + v\tau_{xy} + w\tau_{xz}) + \frac{\partial}{\partial y} (u\tau_{xy} + v\tau_{yy} + w\tau_{yz}) + \frac{\partial}{\partial z} (u\tau_{xz} + v\tau_{yz} + w\tau_{zz}) \right]$$

Navierstokes Equations Nonlinear Func

Karl E. Gustafson

Navierstokes Equations Nonlinear Func:

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