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## NOMENCLATURE

t	time
U	the weight of the velocity vectors in the x direction
V	the weight of the velocity vectors in the y direction
W	the weight of the velocity vectors in the z direction
P	the pressure on the fluid
Div	the divergence of mathematical operator
Grad	the gradient of mathematical operator
Su	the generalized source terms of the conservation of momentum equation
Sv	the generalized source terms of the conservation of momentum equation
Sw	the generalized source terms of the conservation of momentum equation
C <sub>p</sub>	specific heat, J. kg <sup>-1</sup> . K <sup>-1</sup>
T	temperature
k	thermal conductivity, W. m <sup>-1</sup> . K <sup>-1</sup>
S <sub>T</sub>	the internal heat source

## Greek symbols

ρ	Density, kg. m <sup>-3</sup>
μ	Dynamic viscosity, kg. m <sup>-1</sup> . S <sup>-1</sup>