

## Erratum – Advanced Computational Fluid and Aerodynamics, P. G. Tucker

Apologies – The following errors have been found:

pp. 271-272 - To Eqn. (5.4) add source  $S_s$  to the right hand side as part of group (B) terms (that do not directly yield extra source terms). Eqn. (5.6) also needs this term added. Also,

$\tau_{yx} = -\rho \overline{v'u'} = \mu_t \left[ \partial U / \partial x + \partial V / \partial y \right] \rightarrow \tau_{yx} = -\rho \overline{v'u'} = \mu_t \left[ \partial V / \partial x + \partial U / \partial y \right]$ . Equation (5.5) should be as below

$$C = B + \frac{\partial}{\partial x} \mu_t \left( \frac{\partial U}{\partial x} \right) + \frac{\partial}{\partial y} \mu_t \left( \frac{\partial U}{\partial y} \right) + \frac{\partial}{\partial z} \mu_t \left( \frac{\partial U}{\partial z} \right) \quad (5.5)$$

where now  $S_s$  absorbs extra analogous terms to existing but from the Boussinesq approximation.

p. 167 - Fig. 4.12a - the 2 horizontal CV faces should not extend beyond the vertical grid line.