

TURBULENCE MODELLING

HARISHTEJA PEDDI

wall boundary conditions:

I used wall-functions

computed $u_{\tau} = \kappa u / \ln(E u_{\tau} y / \nu)$

then,

$$u^2 = 3.67 (u_{\tau}^2)$$

$$v^2 = 0.83 (u_{\tau}^2)$$

$$w^2 = 2.17 (u_{\tau}^2)$$

$$uv = -1 (u_{\tau}^2)$$

$$\epsilon = \tau^3 / (\kappa \text{node}(2))$$

At [centerline](#) @ $y=1$:

$$du/dy = 0$$

$$d^2u/dy^2 = 0$$

$$dv^2/dy = 0$$

$$dw^2/dy = 0$$

$$uv(n) = 0$$







