References


Grant, H. L., 1958, "The Large Eddies of Turbulent Motion," \textit{J. Fluid Mech.}, vol. 4, pp. 149-190.


Single-Point Measurements

Uncertainty in \((U - U_o)/U_o, \, V/U_o, \, W/U_o\) 0.008

Absolute uncertainty in \(\overline{u^2}/U_o^2\) 0.0023

Absolute uncertainty in \(\overline{v^2}/U_o^2\) 0.0077

Absolute uncertainty in \(\overline{w^2}/U_o^2\) 0.0062

Absolute uncertainty in \(\overline{uv}/U_o^2\) 0.0025

Absolute uncertainty in \(\overline{vw}/U_o^2\) 0.0013

Absolute uncertainty in \(\overline{uw}/U_o^2\) 0.0013

Relative uncertainty in spectral levels 0.18

Two-Point measurements

Uncertainty in \(R_{ij}(y, \Delta y, \Delta z, \tau)/R_{ij}(y,0,0,0)\) 0.035

Relative uncertainty in spectral levels 0.18

Table 1. Uncertainty estimates at 20:1 odds based on measurements made near wake center line