Turbulent Flows

Stephen B. Pope Cambridge University Press (2000)

Solution to Exercise 10.3

Prepared by: Zhuyin Ren

a) Consider the log-law region of a wall-bounded turbulent flow. The turbulent viscosity hypothesis say

$$-\langle uv \rangle = \nu_T \frac{\partial \langle U \rangle}{\partial y}$$
. (1)

Date: 3/27/03

With $\nu_T = ck^{1/2}\ell_m$, we get

$$\langle nv \rangle = -ck^{1/2}\ell_m \frac{\partial \langle U \rangle}{\partial y}.$$
 (2)

According to the log-law

$$u^{+} = \frac{1}{\kappa} \ln y^{+} + B$$
 (3)

where $y^+ = \frac{y}{\delta r} = \frac{u \cdot y}{r}$, $u_r = \sqrt{\frac{r_r}{\rho}}$, $\delta_{rr} = \frac{r}{u \cdot r}$ and $u^+ = \frac{(U)}{n \cdot r}$, we get

$$\frac{\partial \langle U \rangle}{\partial y} = \frac{u_{\tau}^2}{\nu} \frac{du^+}{dy^+} = \frac{u_{\tau}^2}{\nu \kappa y^+}$$

$$= \frac{u_{\tau}}{\kappa y}.$$
(4)

Substituting Eq. 4 into Eq. 2, we get

$$(uv) = -ck^{1/2}\ell_m u_*/(\kappa y).$$
 (5)

In the log-law region of a wall-bounded turbulent flow, $\langle uv \rangle \approx -\tau_w/\rho$, so

$$u_\tau = |\langle uv \rangle|^{1/2}$$
. (6)

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