

Turbulent Flows
Stephen B. Pope
Cambridge University Press (2000)
Solution to Exercise 10.3

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

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

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

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

According to the log-law

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

where $y^+ = \frac{y}{\delta_\nu} = \frac{u_\tau y}{\nu}$, $u_\tau = \sqrt{\tau_w/\rho}$, $\delta_\nu = \frac{\nu}{u_\tau}$ and $u^+ = \frac{\langle U \rangle}{u_\tau}$, we get

$$\begin{aligned} \frac{\partial \langle U \rangle}{\partial y} &= \frac{u_\tau^2}{\nu} \frac{du^+}{dy^+} = \frac{u_\tau^2}{\nu \kappa y^+} \\ &= \frac{u_\tau}{\kappa y}. \end{aligned} \quad (4)$$

Substituting Eq. 4 into Eq. 2, we get

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

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

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

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