2= f(m, zw, e, y)

P6.35 In the overlap layer of Fig. 6.9a, turbulent shear is large. If we neglect viscosity, we can replace Eq. (6.24) by the approximate velocity-gradient function

$$\frac{du}{dy} = fcn(y, \tau_w, \rho)$$

Show that, by dimensional analysis, this leads to the logarithmic overlap relation (6.28).

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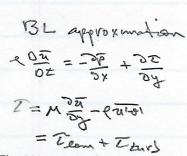
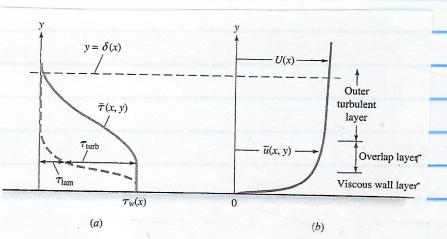


Fig. 6.9 Typical velocity and shear distributions in turbulent flow near a wall: (a) shear; (b) velocity.



integrate