

Figure 2.1

Elemental control volume in a flow field for the derivation of the continuity equation indicated.

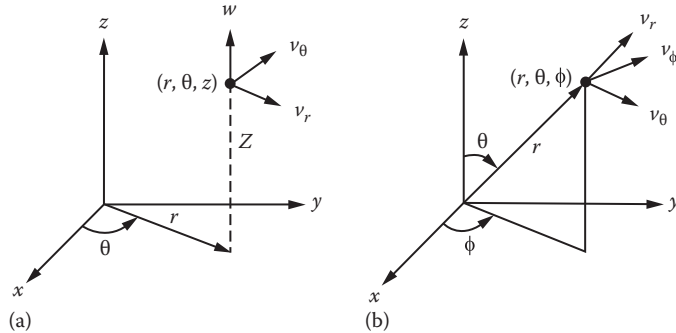


Figure 2.2

Velocity components in (a) cylindrical and (b) spherical coordinate systems.

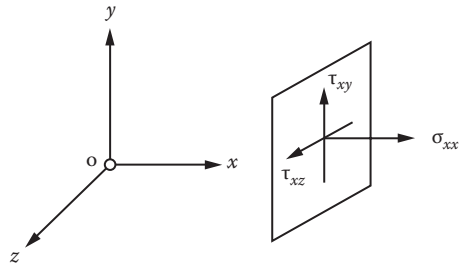


Figure 2.3

Normal and shear stresses acting on a surface element whose normal is in the x -direction.

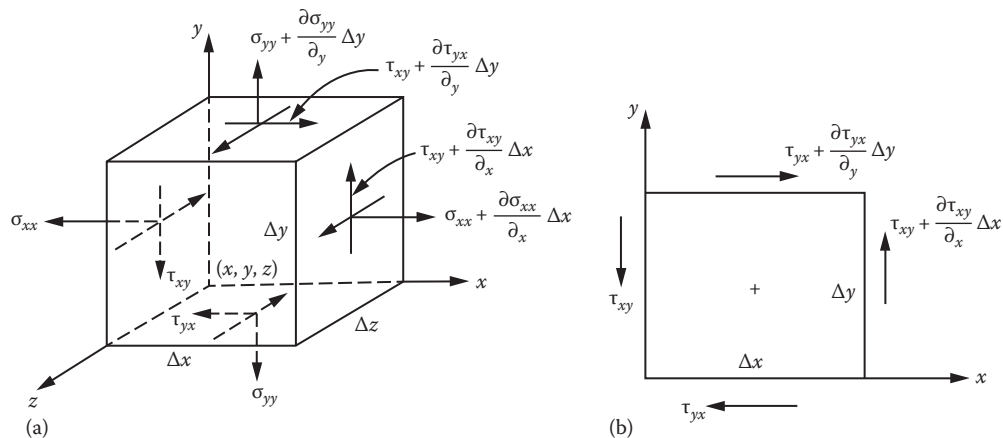


Figure 2.4

Normal and shear stresses acting on an element of fluid. (a) All stresses acting on an element of fluids and (b) only the shear stresses in the x - and y -directions (both positive and negative).

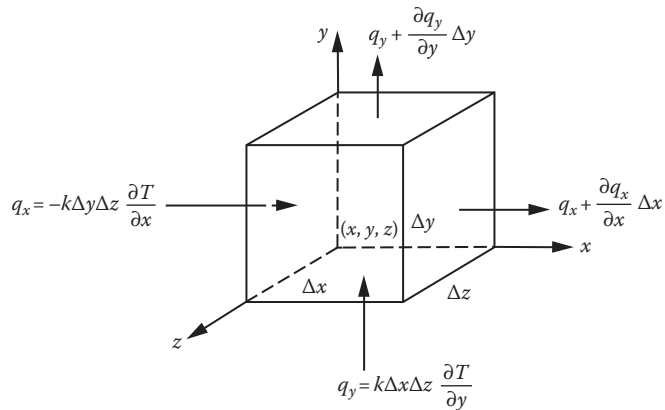


Figure 2.5

Heat transfer by conduction to a fluid element. Only the x - and y -components are shown.

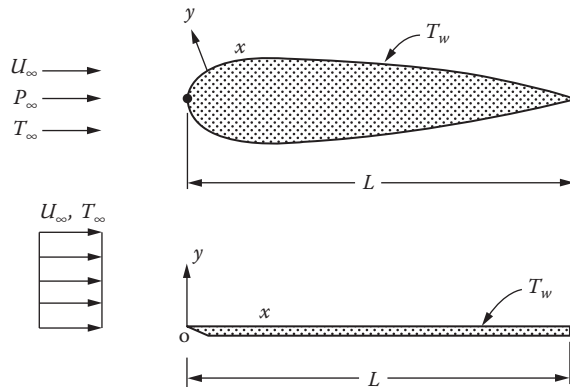


Figure 2.6
Flow over external surfaces.

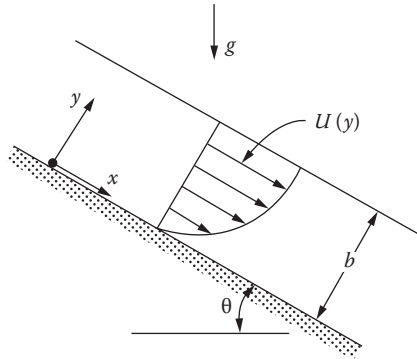


Figure 2.7
Problem 2.7.