

Chapter7_example1

Solution to part (a)

The Reynolds Number is 3.19×10^4

Solution to part (b)

Results of Calculations for Example 7.1

eta	y,m	f=vx, m/s
0	0.00e+00	0.00000
1	1.98e-03	0.32979
2	3.96e-03	0.62977
3	5.94e-03	0.84605
4	7.92e-03	0.95552
5	9.90e-03	0.99155

Solution to part (c)

The absolute viscosity is 1.846×10^{-5} N.s/sq.m

The skin-drag is 2.19×10^{-3} N

The skin-drag including both sides of plate is 4.38×10^{-3} N