Chapter7_example2

The Reynolds Number at x=1 ft is 1.108e+05

The average convection coefficient at x=1 is 146.0 BTU/(hr. sq.ft. degree Rankine)

The heat transferred to water over the x=1 ft is 1.314e+04 BTU/hr

The Reynolds Number at x=2 ft is 2.216e+05

The average convection coefficient at x=2 is 103.2 BTU/(hr. sq.ft. degree Rankine)

The heat transferred to water over the x=2 ft is 1.858e+04 BTU/hr

Solution Chart for example 7.2

eta	theta	y, ft	T, degree F
0.0	1.00	0.0e+00	100.0
0.2	0.75	6.0e-04	85.0
0.4	0.51	1.2e-03	70.6
0.6	0.31	1.8e-03	58.6
0.8	0.17	2.4e-03	50.2
1.0	0.08	3.0e-03	44.8
1.2	0.01	3.6e-03	40.6