

### Chapter7\_example3

The Reynolds number is  $2.41 \times 10^5$

The average convection coefficient is  $8.68 \text{ W}/(\text{sq.m.K})$

The drag force is  $1.69 \times 10^{-2} \text{ N}$

The local convective coefficient is  $4.34 \text{ W}/(\text{sq.m.K})$

The boundary-layer thickness at plate end is  $1.02 \text{ cm}$

The thermal-boundary-layer thickness is  $1.15 \text{ cm}$