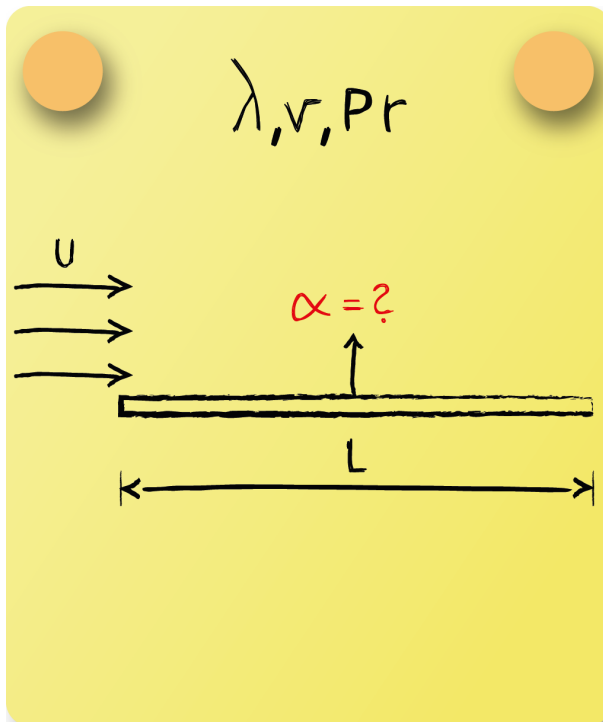




Heat Transfer Correlation: Task 4



The image describes a fluid which streams with velocity u over a plate with length L . A turbulent boundary layer is formed on the plate.

1



HTC.6: $\overline{Nu}_L \approx 0.036 Pr^{0.43} (Re_L^{0.8} - 9400)$

2



$Re_L = 4.1:651465.8 | 4.2:961076.4 | 4.3:759878.4 | 4.4:739645$

3



$\overline{Nu}_L = 4.1:1102.55 | 4.2:1861.24 | 4.3:2788.36 | 4.4:1254.04$

4



$\overline{\alpha} = 4.1:2.82 | 4.2:4.668 | 4.3:1759.46 | 4.4:3.032$