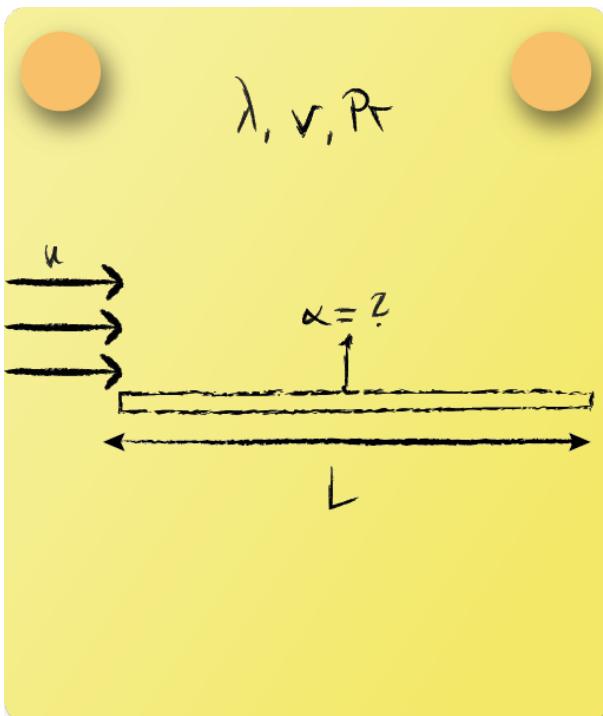




Heat Transfer Correlation: Task 4



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 $\overline{\alpha} = 4.1:2,82 | 4.2:4,668 | 4.3:1759,46 | 4.4:3,032$