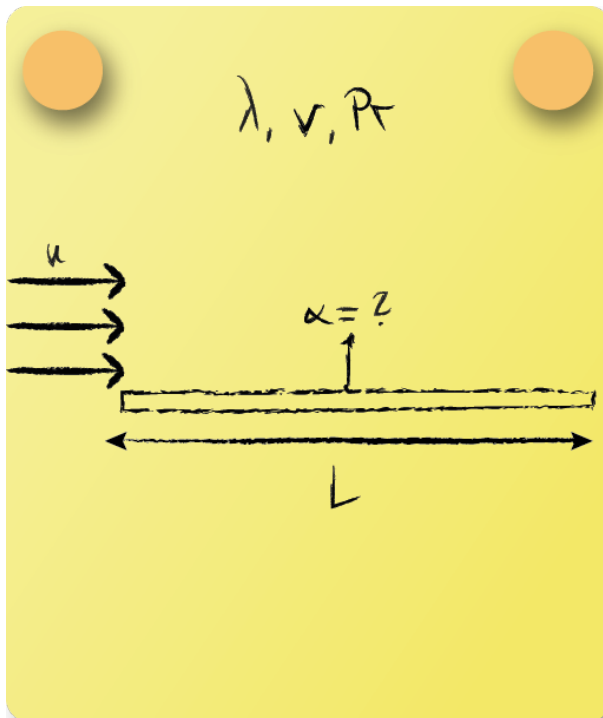




Heat Transfer Correlation: Task 4



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



$$\text{HTC.6: } \overline{Nu_L} \approx 0,036 Pr^{0,43} (Re_L^{0,8} - 9400)$$

2



$$Re_L = 4.1:651465,8 \mid 4.2:961076,4 \mid 4.3:759878,4 \mid 4.4:739645$$

3



$$\overline{Nu_L} = 4.1:1102,55 \mid 4.2:1861,24 \mid 4.3:2788,36 \mid 4.4:1254,04$$

4



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