Heat Transfer Correlation: Task 8
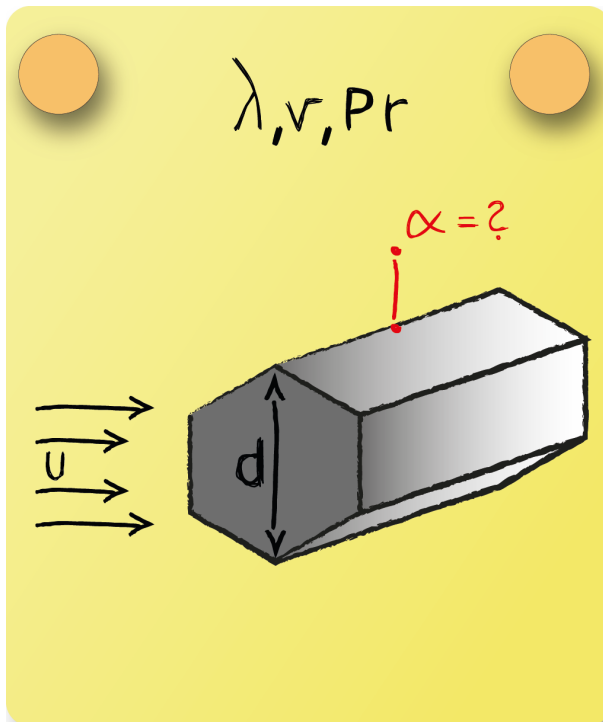

The image describes a hexagonal bar which is flowed transversely on one side surface by a fluid with velocity u.

1   HTC.9c: $\overline{Nu_d} = \frac{\overline{\alpha}d}{\lambda} = C \cdot Re_d^m Pr^{0.4}$ with $Re_d = \frac{ud}{\nu}$

2   Results: $Re_d = 42933.33$ $\overline{Nu_d} = 140.87$ $\overline{\alpha} = 7.96$