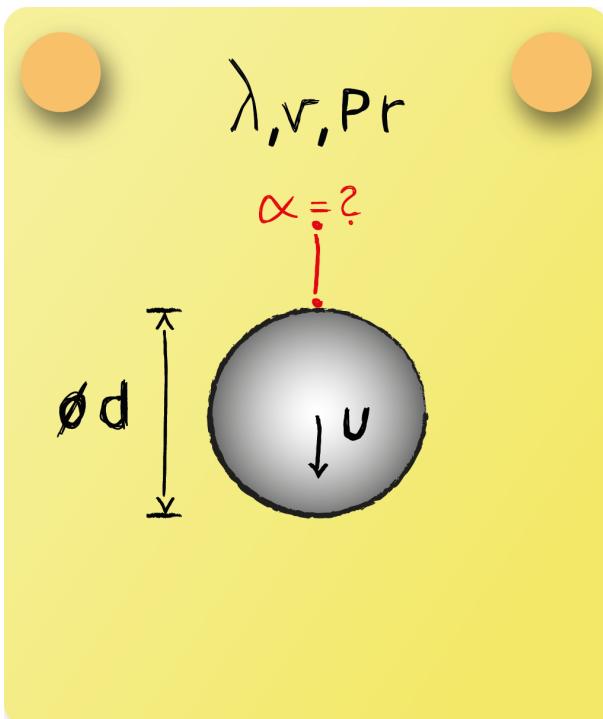


Heat Transfer Correlation: Task 11



The image describes a sphere with diameter d which falls with velocity u in a non-moving fluid.

- 1  HTC.11: $\overline{Nu_d} = 2 + (0.4Re_d^{1/2} + 0.06Re_d^{2/3})Pr^{0.4}(\frac{\eta_\infty}{\eta_w})^{1/4}$
with $Re_d = \frac{ud}{\nu}$
- 2  $Re_d = 11.1:65146.6 | 11.2:12013.5 | 11.3:27886.2 | 11.4:15.2 | 11.5:54.9$
- 3  $\overline{Nu_d} = 11.1:176.20 | 11.2:77.28 | 11.3:347.25 | 11.4:5.463 | 11.5:16.04$
- 4  $\bar{\alpha} = 11.1:22.55 | 11.2:193.83 | 11.3:1948.08 | 11.4:344.74 | 11.5:186.08$