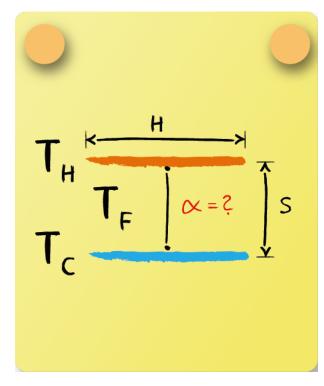


Heat Transfer Correlation: Task 23



The image describes a gap of s between two horizontal plates of length H which is filled with an ideal gas. The upper plate has a temperature T_H and the lower plate has a temperature T_C , the ideal gas in between has an average temperature T_F .



For heating from above, the relationship for pure heat conduction always applies: $\overline{Nu_s} = 1$



Results: $Gr_s = 1682.92 \ \overline{Nu_s} = 1 \ \overline{\alpha} = 7.63$



Important: Use temperatures in Kelvin!