Summary

Steady state heat transfer in a rectangular slab and tubular pipe has been detailed. Heat conduction in multilayered systems and estimation of convective heat-transfer coefficient has been discussed. In all these cases heat transfer is defined as ratio of temperature difference to thermal resistance. Dimensionless quantities such as Nusselt, Prandtl, Grashof, Rayleigh numbers have been introduced and their significance in heat transfer has been detailed. Finally over-all heat transfer coefficient estimation using LMTD has been discussed.