



- 1- Determine heat loss from a person exposed to the air which is at 18 C, then determine heat loss from this person when he is in water with same temperature. (state your assumption)
- 2- A circular grill of diameter 0.5 m and emissivity 0.9 is maintained at a constant surface temperature of 130 C. What electrical power is required when the room air and surrounding are 24 C?
- 3- A plate 1m by 1m by 1m, inclined at an angle of 45 C, is exposed to a net radiation heat flux of 300 W/m^2 at its bottom surface, If the top surface of the plate is well insulated, estimate the temperature the plate reaches when the ambient air is quiescent and at a temperature of 0 C.