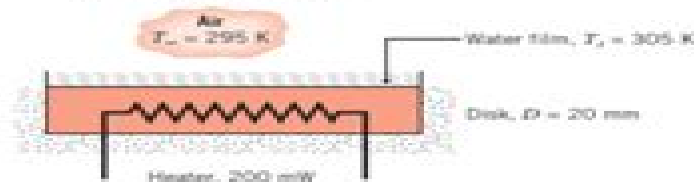




- If the evaporative flux from the surface of the water to the air is $n_w^* = 0.030 \text{ kg/s} \cdot \text{m}^2$, what is the corresponding value of the convection mass transfer coefficient? How long will it take for the water to completely evaporate?
- What is the corresponding value of the convection heat transfer coefficient and the rate at which electrical power must be supplied per unit area of the plate to maintain the prescribed temperature of the water? The emissivity of water is $\epsilon_w = 0.95$.
- If the electrical power determined in part (b) is maintained after complete evaporation of the water (case B), what is the resulting temperature of the plate, whose emissivity is $\epsilon_p = 0.60$?

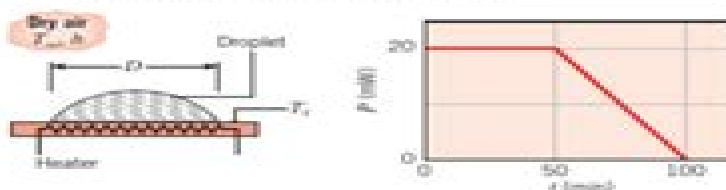
6.83 A disk of 20-mm diameter is covered with a water film. Under steady-state conditions, a heater power of 200 mW is required to maintain the disk–water film at 305 K in dry air at 295 K and the observed evaporation rate is $2.55 \times 10^{-3} \text{ kg/h}$.



- Calculate the average mass transfer convection coefficient \bar{h}_m for the evaporation process.
- Calculate the average heat transfer convection coefficient \bar{h} .
- Do the values of \bar{h}_m and \bar{h} satisfy the heat-mass analogy?
- If the relative humidity of the ambient air at 295 K were increased from 0 (dry) to 0.50, but

the power supplied to the heater was maintained at 200 mW, would the evaporation rate increase or decrease? Would the disk temperature increase or decrease?

6.84 An experiment is conducted to determine the average mass transfer convection coefficient of a small droplet using a heater controlled to operate at a constant temperature. The power history required to completely evaporate the droplet at a temperature of 37°C is shown in the sketch. It was observed that, as the droplet dried, its wetted diameter on the heater surface remained nearly constant at a value of 4 mm.



- Calculate the average mass transfer convection coefficient based on the wetted area during the evaporation process when the droplet, heater, and the dry ambient air are at 37°C.
- How much energy will be required to evaporate the droplet if the dry ambient air temperature is 27°C, while the droplet–heater temperature remains at 37°C?

6.85 It is desired to develop a simple model for predicting the temperature–time history of a plate during the drying cycle in a dishwasher. Following the wash cycle the plate is at $T_p(t) = T_p(0) = 65^\circ\text{C}$ and the air in the dishwasher is completely saturated ($\phi_w = 1.0$) at $T_\infty = 55^\circ\text{C}$. The values of the plate surface area A_p , mass M , and specific heat c are such that $Mc/A_p = 1600 \text{ J/m}^2 \cdot \text{K}$.

- Assuming the plate is completely covered by a thin film of water and neglecting the thermal resistances of the film and plate, derive a differential equation for predicting the plate temperature as a function of time.
- For the initial conditions ($t = 0$) estimate the change in plate temperature with time, dT_p/dt ($^\circ\text{C/s}$), assuming that the average heat transfer coefficient on the plate is $3.5 \text{ W/m}^2 \cdot \text{K}$.

Fundamentals Of Heat And Mass Transfer 7th Edition

T. L. Bergman



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