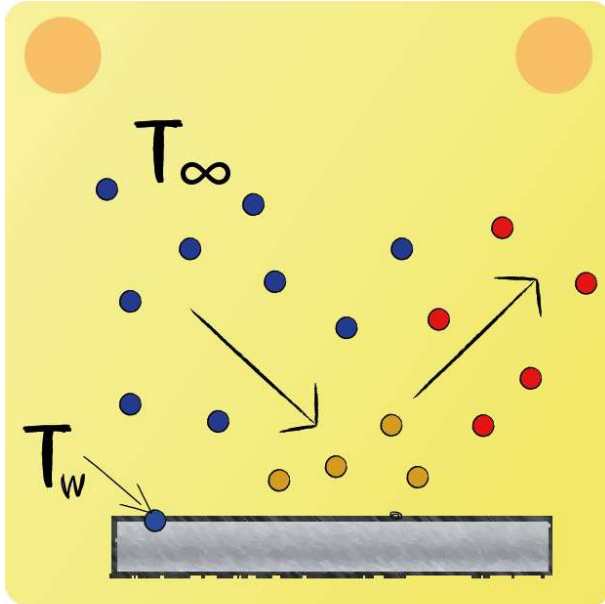


Lecture 7 - Question 5



Can we define the convection resistance for a unit surface area as the inverse of the convection heat transfer coefficient?

Convective resistance:

$$R_{conv} = \frac{1}{\alpha \cdot A}$$



For a unit surface $A = 1 \text{ m}^2$

$$R_{conv} = \frac{1}{\alpha} = \alpha^{-1}$$

Thus the final answer is yes.