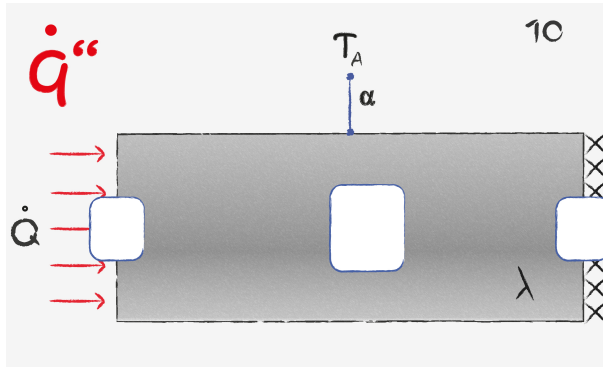




Axial Heat Flux: Task 10



The image describes a rectangular body with an imposed heat flux on the left, an adiabatic wall on the right and heat loss through convection on top and bottom surface.

1



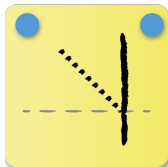
The imposed heat flux yields a positive profile.

2



Convection causes the specific heat flux to decrease. Due to temperature loss less heat is convected towards the right.

3



Since the wall is isolated and therefore adiabatic, the specific heat flux equals zero.