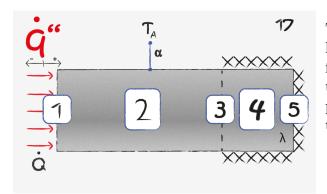


## Axial Heat Flux: Task 17



The image describes a rectangular body with an imposed heat flux on the right and heat loss through convection. The right part is isolated from all directions.

The imposed heat flux yields a positive profile. 1 Convection causes the specific heat flux to decrease. Due to temperature loss less heat is convected towards the 2 right. The transition is characterized by a kink from decrease 3 to constant, since from here on walls are adiabatic. Due to the isloation of any surrounding surface including the right boundary, no heat is conducted at all. 4 Specific heat flux remains zero to the right.

5

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