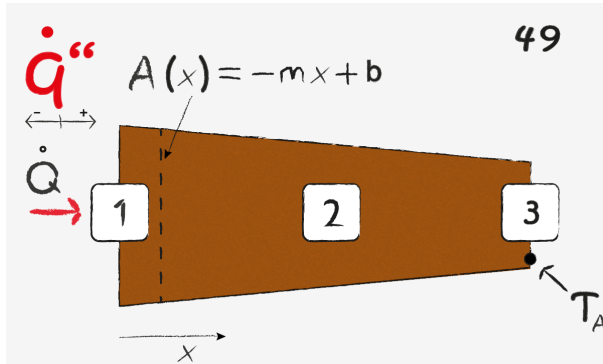


Axial Heat Flux: Task 49



The image describes a solid body, whose cross section area decreases linearly from left to right.

1



The imposed heat flux yields a positive profile.

2



Specific heat flux develops proportional to $\frac{1}{A(x)}$ and therefore increases. The increase of the gradient can be derived mathematically or can be thought of an increase of the relative change in cross section area.

3



The profile continues the described behavior up to the right boundary.