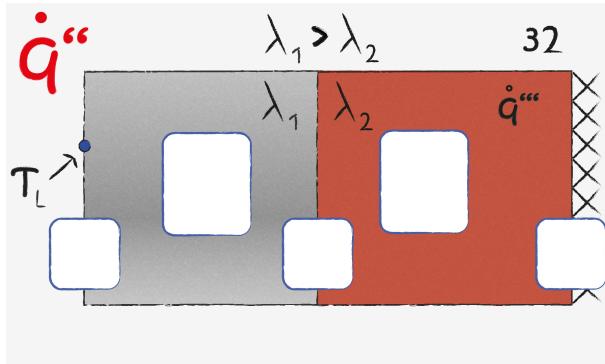


Axial Heat Flux: Task 32



The image describes a rectangular body with a volumetric heat source in section 2 and an adiabatic wall on the right side. Thermal conductivity of section 1 is greater than section 2.

- 1 The heat source in section 2 indicates heat flow towards the left, which yields a negative heat flux.
- 2 Due to the constant cross section area, the specific heat flux is constant too.
- 3 The transition is characterized by a kink from decrease to increase, since it marks the beginning of the heat source.
- 4 The heat source causes a linear increase of specific heat flux.
- 5 The adiabatic wall forces the heat flux to vanish at the boundary.