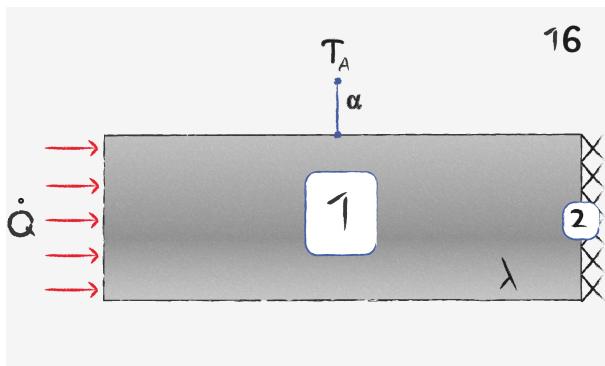


Heat Conduction: Task 16



The image describes a rectangular body with a heat flux from left to right and heat loss through convection. The wall on the right side is adiabatic.

1



Due to the heat loss through convection , the temperature gradient decreases from left to right and to meet the condition on the adiabatic wall (no heat transport), the temperature gradient must be zero on the wall.

2



On an adiabatic wall there is no heat transport so the temperature gradient is zero.