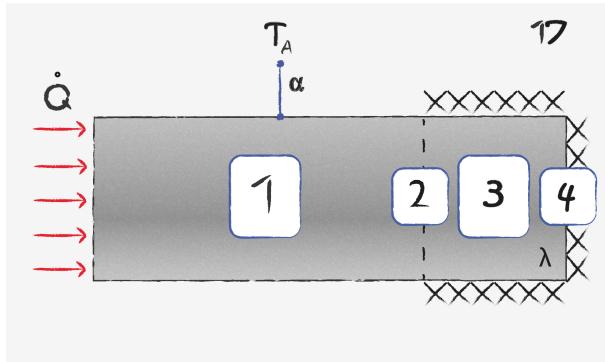


Heat Conduction: Task 17



The image describes a rectangular body with a heat flux from left to right and heat loss through convection. The right part is isolated from all directions.

- 1 Due to the heat loss through convection , the temperature gradient decreases from left to right and to meet the condition at the interface (no heat transport), the temperature gradient must be zero there.
- 2 There is no heat transport through the interface so the temperature gradient is zero.
- 3 There is no heat transport through this area (due to the isolation) so the temperature gradient is zero.
- 4 There is no heat transport through the interface so the temperature gradient is zero.