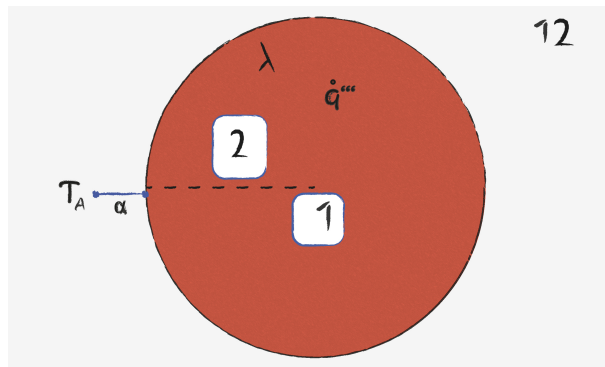


Heat Conduction: Task 12



The image describes a cylindrical body of infinite extension with a homogeneous heat production.

1



Due to symmetry reasons, the temperature gradient in the center is zero.

2



To meet the condition in the center, the temperature gradient is zero (right side). Due to the constantly increasing heatflux (heat source), the temperature gradient increases constantly with the radius.