

Main equations

Here an equation

$$\dot{Q} = k \cdot A \cdot \Delta T \quad (1)$$

or another one

$$\frac{1}{k} = \left[\frac{1}{\alpha_i r_i} + \sum_{j=1}^n \frac{1}{\lambda_j} \ln \frac{r_{a,j}}{r_{i,j}} + \frac{1}{\alpha_a r_a} \right] \cdot r_{\text{reference}} \quad (2)$$

Nomenclature

Latin Letters

A	area	m^2	
k	overall heat transfer coefficient	$\text{W}/(\text{m}^2\text{K})$	see eq. (2)
L	length	m	SI base quantity
\dot{Q}	heat flux	W	
ΔT	temperature difference	K	SI base quantity
T	temperature	K	SI base quantity

Greek Letters

α	convection heat transfer coefficient	$\text{W}/(\text{m}^2\text{K})$	
λ	thermal conductivity	W/K	

Subscripts

a	out
i	in
j	running parameter
n	number of walls