Main equations

Here an equation

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

or another one

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

Nomenclature

**Latin Letters**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>$A$</td>
<td>area</td>
<td>m$^2$</td>
</tr>
<tr>
<td>$k$</td>
<td>overall heat transfer coefficient</td>
<td>W/(m$^2$K)</td>
</tr>
<tr>
<td>$L$</td>
<td>length</td>
<td>m</td>
</tr>
<tr>
<td>$\dot{Q}$</td>
<td>heat flux</td>
<td>W</td>
</tr>
<tr>
<td>$\Delta T$</td>
<td>temperature difference</td>
<td>K</td>
</tr>
<tr>
<td>$T$</td>
<td>temperature</td>
<td>K</td>
</tr>
</tbody>
</table>

**Greek Letters**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\alpha$</td>
<td>convection heat transfer coefficient</td>
<td>W/(m$^2$K)</td>
</tr>
<tr>
<td>$\lambda$</td>
<td>thermal conductivity</td>
<td>W/K</td>
</tr>
</tbody>
</table>

**Subscripts**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$a$</td>
<td>out</td>
</tr>
<tr>
<td>$i$</td>
<td>in</td>
</tr>
<tr>
<td>$j$</td>
<td>running parameter</td>
</tr>
<tr>
<td>$n$</td>
<td>number of walls</td>
</tr>
</tbody>
</table>