

# Useful Equations

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## 1 Guidelines

Dump equations here with titles and with a brief blurb about what it is, assumptions it makes, etc

## 2 Heat Transfer Equations

### 2.1 Fourier's law of heat conduction

$$\mathbf{q} = -k\nabla T \tag{1}$$

$\mathbf{q}$  is the local heat flux density,  $k$  is the material's conductivity,  $T$  is the temperature