

$$\rho C_p \mathbf{u} \cdot \nabla T + \nabla \cdot \mathbf{q} = Q + Q_{\text{ted}}$$

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

Features

Heat Transfer in Solids 1
Initial Values 1
Thermal Insulation 1
Temperature 1
Heat Flux 1
Heat Source 1

2.4.1 Heat Transfer in Solids 1

Equations

$$\rho C_p \mathbf{u} \cdot \nabla T + \nabla \cdot \mathbf{q} = Q + Q_{\text{ted}}$$

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

2.4.2 Thermal Insulation 1

Equations

$$-\mathbf{n} \cdot \mathbf{q} = 0$$

2.4.3 Temperature 1

Equations

$$T = T_0$$

2.4.4 Heat Flux 1

Equations

$$-\mathbf{n} \cdot \mathbf{q} = q_0$$

2.4.5 Heat Source 1

Equations

$$Q = Q_0$$

