Heat flux

@wikipedia

Amount of heat energy transfer across unit area in unit time:

(1) $$j_H = \frac{\delta E_H}{\delta A \cdot \delta t}$$

For the continuum body the heat flux model is adequately described by Fourier's law:

(2) $$\mathbf{j}_H = \lambda \cdot \nabla T$$

where

λ	thermal conductivity of the continuum body

The heat flux j_H is related to heat flow q_H as:

(3) $$j_H = \frac{q_H}{A}$$

where

A	heat transfer area

See also

Physics / Thermodynamics / Heat Transfer / Heat flow

[Heat Flux Conduction @ model (Fourier's law)]