

Fundamental Principles of Heat Transfer

Heat is energy in transfer due to a temperature difference.

The three basic mechanisms of heat transfer are conduction, convection and radiation.

For our lab Experiment 2, we will only consider conduction and convection.

Heat Conduction - Conduction is the basic mechanism for heat transfer in solids. In a molecular scale, it is modeled by a transfer of vibration energy of adjacent fixed atoms from those of high vibration energy (temperature) to those of lower vibration energy. The fundamental equation is Fourier's law of heat transfer, which is the counter part of Newton's law of viscosity where:

$$\frac{q}{A} = -k \frac{dT}{dy}$$

A - area of heat transfer surface

y - distance normal to the surface

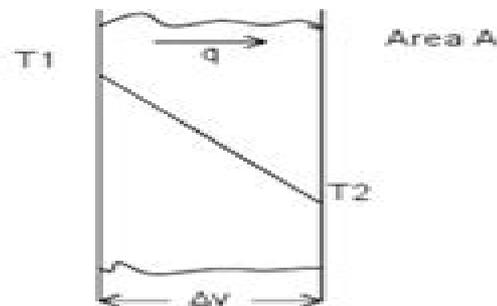
q - rate of heat flow across the surface

dT/dy - Temperature gradient in the direction normal to the surface

k - thermal conductivity of the material

The thermal conductivity is a property that measures the ability of the material to conduct the heat. The higher the thermal conductivity, the higher the heat flow per unit area at a given temperature gradient.

Let us consider a flat slab of solid with a temperature gradient:



At steady state, the heat flow at every point in the direction of flow is the same.

Since the area is the same:

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