Measurement of Thermal Conductivity

Aim: To determine thermal conductivity of a bad conductor.

Apparatus: The Thermal Conductivity Apparatus includes the following equipment:

- · Base, Weighing balance
- . Steam chamber with hardware for mounting sample
- · Ice mold with cover
- Materials to test: Glass, wood, lexan, masonite, and sheet rock (The wood, masonite, and sheet rock are covered with aluminum foil for waterproofing.)

Theory: Heat can be transferred from one point to another by three common methods; conduction, convection and radiation. Each method can be analyzed and each yields its own specific mathematical relationship. Thermal Conductivity Apparatus allows one to investigate the rate of thermal conduction through five common materials used in building construction. The equation giving the amount of heat conducted through a material is:

Q = kATt/h.

In this equation, Q is the total heat energy conducted, A is the area through which conduction takes place, T is the temperature difference between the sides of the material, t is the time during which the conduction occurred and h is the thickness of the material. The remaining term, k, is the thermal conductivity of a given material.

The importance of k lies in whether one wishes to conduct heat well (good conductor) or poorly (good insulator).

The equation for determining k is:

k = Qh/ATt

The technique for measuring thermal conductivity is straightforward. A slab of the material to be tested is clamped between a steam chamber, which maintains a constant temperature of 100 °C, and a block of ice, which maintains a constant temperature of 0°C. A fixed temperature differential of 100 °C is thereby established between the surfaces of the material. The heat transferred is measured by collecting the water from the melting ice. The ice melts at a rate of 1 gram per 80 calories of heat flow (the latent heat of melting for ice).

The thermal conductivity, k, is therefore measured using the following equation:

$$k\left(\frac{cal.}{cm\ sec\ K}\right) = \frac{(mass\ of melted\ ice).\left(80\frac{cal}{gm}\right).(thickness\ of material)}{(area\ of ice).(time\ during\ which\ ice\ melted).(temp.\ differential)}$$

where distances are measured in centimeters, masses in grams, and time in seconds.

Thermal Effects In Semioconductors Lab Manual

Antony Sou

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