

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:

$$Q = kAT/h.$$

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:

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

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

Thermal Effects In Semioconductors Lab Manual

TD Snyder



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Researches of the Electrotechnical Laboratory, 1962 Guide to Metallurgical Information Special Libraries Association. Metals/Materials Division, 1965 **Laboratory Experiments to Accompany Essentials of Solid State Electronics** Rodney B. Faber, 1985-06-12 Microchip Fabrication: A Practical Guide to Semiconductor Processing, Sixth Edition Peter Van Zant, 2013-10-22 The most complete current guide to semiconductor processing Fully revised to cover the latest advances in the field Microchip Fabrication Sixth Edition explains every stage of semiconductor processing from raw material preparation to testing to packaging and shipping the finished device This practical resource provides easy to understand information on the physics chemistry and electronic fundamentals underlying the sophisticated manufacturing materials and processes of modern semiconductors State of the art processes and cutting edge technologies used in the patterning doping and layering steps are discussed in this new edition Filled with detailed illustrations and real world examples this is a comprehensive up to date introduction to the technological backbone of the high tech industry COVERAGE INCLUDES The semiconductor industry Properties of semiconductor materials and chemicals Crystal growth and silicon wafer preparation Wafer fabrication and packaging Contamination control Productivity and process yields Oxidation The ten step patterning process surface preparation to exposure developing to final inspection Next generation lithography Doping Layer deposition Metallization Process and device evaluation The business of wafer fabrication Devices and integrated circuit formation Integrated circuits Packaging Thermophysical Properties Research Literature Retrieval Guide: Alloys, intermetallic compounds and cermets Purdue University. Thermophysical Properties Research Center, 1973 **Retrieval Guide to Thermophysical Properties Research Literature** Purdue University. Thermophysical Properties Research Center, 1963 **Subject Guide to Books in Print**, 1995 British Semiconductor Guide, 1960 Thermophysical Properties Research Literature Retrieval Guide 1900-1980 J. F. Chaney, V. Ramdas, C. R. Rodriguez, M. H. Wu, 1982

Whitaker's Five-year Cumulative Book List, 1958 *British Semiconductor Guide - 1960* Cyril Clements Gee, 1960
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