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Material Science Prof. Satish V. Kallias Associate Professor Dept. of Mechanical Engineering, Indian Institute of Science, Bangalore - 560012 India Chapter 4. Mechanical Properties of Metals Most of the materials used in engineering are metallic in nature.

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Properties of materials vary considerably with temperature Thermal Properties: Heat Capacity (internal energy), Thermal Expansion Transport Properties: Thermal conductivity, Electrical conductivity Mechanical Properties: Strength, modulus or compressibility, ductility, toughness Superconductivity Many of the materials properties have been recorded and models

1.2 Low Temperature Properties of Materials

The thermal conductivity of a material is a measure of how fast heat will flow in that material. A large value for thermal conductivity indicates that the material is a good heat conductor, and a low value indicates that the material is a poor heat conductor or insulator. Thermal conductivity of pure copper at room temperature is 401 W/m.

THE THERMAL PROPERTIES OF MATTER

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Physics of Materials by Dr. Prathap Haridoss,Department of Metallurgical & Materials Engineering,IIT Madras. For more details on NPTEL visit <http://nptel.iitm.ac.in>.

Properties of Materials

To finalize the material for an engineering product / application, we should have the knowledge of Electrical properties of materials.The Electrical properties of a material are those which determine ability of material to be suitable for a particular Electrical Engineering Application. Some of the typical Electrical properties of engineering materials are listed below-

Electrical Properties of Engineering Materials | Electrical4U

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