

Product Name :
Thermal Conductivity of Metal Rod

Product Code :
NLAB-EDUCATIONTVET16017

Description :

Thermal Conductivity of Metal Rod

Technical Specification :

Thermal Conductivity of Metal Rod -

The experimental set up consists of a metal bar, one end of which is heated by an electric heater while the other end of the bar projects inside the cooling water jacket. By varying the heat input rates, data can be obtained. Heat Input to the heater is given through variac.

The temperature of the bar is measured in different sections.

A cylindrical shell filled with insulating material surrounds the middle portion of the bar.

Water at a constant rate is circulated through the jacket and its flow rate and temperature rise are noted.

Experimentation:-

To plot the temperature distribution along the length of Bar.

To determine the thermal conductivity of given bar at various temperatures.

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