

Product Name :
HEAT TRANSFORMER THROUGH COMPOSITE WALLS

Product Code :
TRANSFORMER0005



Description :

HEAT TRANSFORMER THROUGH COMPOSITE WALLS

Technical Specification :

The setup consists of a heater sandwiched between two sets of slabs. Three types of slabs are provided on either sides of heater, which forms a composite structure. A small hand press frame is provided to ensure the perfect contact between the slabs. A voltmeter is provided for varying the input to the heater and Digital Voltmeter and Digital Ammeter display the heat input. Heat produced by heater flows axially on both the sides. Temperature Sensors are embedded between interfaces of slabs to determine the temperature gradient. The experiment can be conducted at various values of input and calculation can be made accordingly.

Experiments

- To determine total thermal resistance and thermal conductivity of composite wall
- To plot temperature gradient along composite wall structure

Utilities Required

- Electricity Supply: 1Phase, 220 V AC, 2 Amps.

- Table for set-up support

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