



Features

- Complete instrumentation for study of Radial Heat Transfer phenomenon.
- Direct reading of Temperature, Voltage, Current.
- Optional Computerized Data Acquisition System.

Tesca Radial Conduction Heat Transfer apparatus has been designed to demonstrate the application of the Fourier Rate equation to simple steady-state conduction radially through the wall of a tube. The arrangement, using a solid metal disk with temperature measurements at different radii and heat flow radially outwards from the centre to the periphery, enables the temperature distribution and flow of heat by radial conduction to be investigated. Temperature sensors record the surface temperature at different radii of the specimen disk. Instruments are provided to measure the Temperatures, Power Input to heater & Cooling Water Flow rate. Detailed Operation & Maintenance Manual is provided along with the trainer.

- Power Supply with power regulator
- Test Specimen: Metal Disk heated at the centre with thermocouples on its surface Thermocouple sensors
- Temperature Indicator
- Variable Area water flow meter
- Digital Voltmeter
- Digital Ammeter
- Flow control valve

Experiment Capabilities

- Fourier's equation and determining the rate of heat flow through solid materials
- Measuring the temperature distribution during radial heat conduction
- Determine the thermal conductivity of the disc or cylinder material

Services Required

- Electric Supply 220 - 240V AC, 16 A, Single Phase, Earthed.
- Tap water supply & Drainage.

Note: Specifications are subject to change.

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