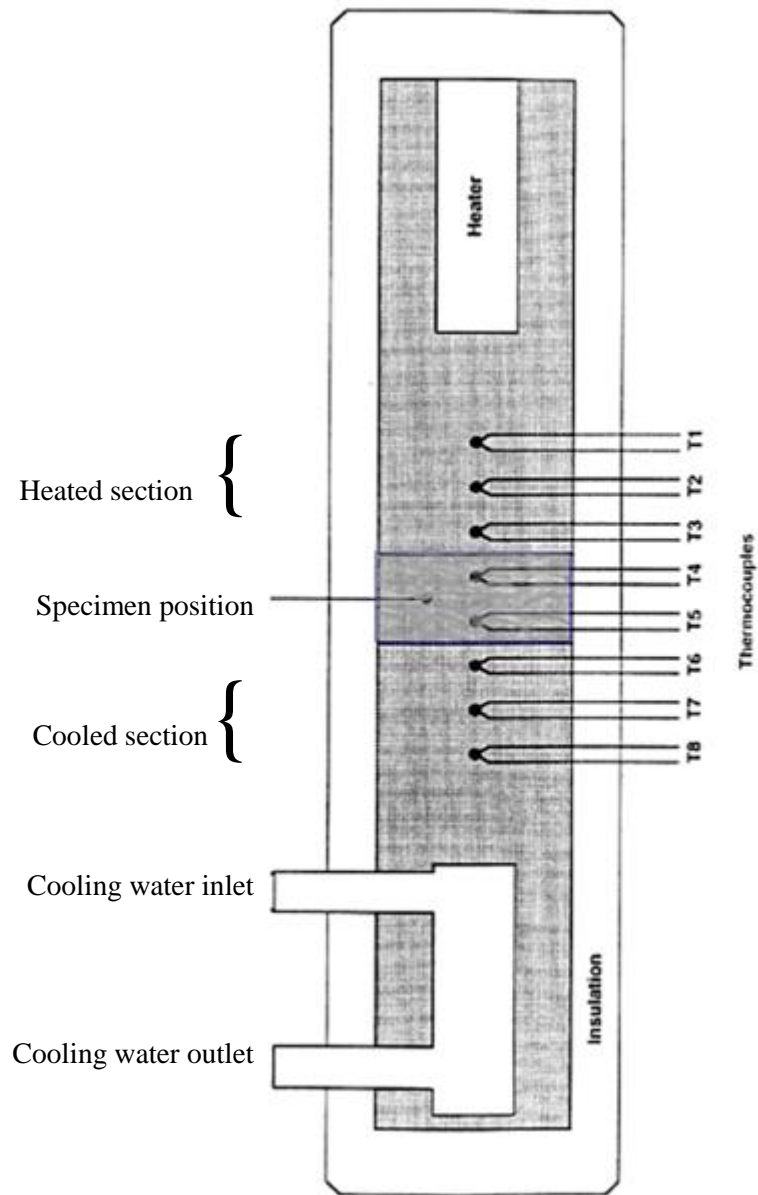


LINEAR CONDUCTIVE HEAT TRANSFER EXPERIMENT

Schematic Diagram of the Experiment



Useful Data

Heated Section

Material: Brass, 25 mm diameter, Thermocouples T1, T2, T3 at 15 mm spacing

Thermal Conductivity: Approximately 121 W/m K

Cooled Section

Material: Brass, 25 mm diameter, Thermocouples T6, T7, T8 at 15 mm spacing

Thermal Conductivity: Approximately 121 W/m K

Brass Intermediate Specimen

Material: Brass, 25 mm diameter x 30 mm long. Thermocouples T4, T5 at 15 mm spacing centrally spaced along the length.

Thermal Conductivity: Approximately 121 W/m K

Stainless Steel Intermediate Specimen

Material: Stainless steel, 25 mm diameter x 30 mm long. No thermocouples fitted.

Thermal Conductivity: Approximately 25 W/m K

Aluminium Intermediate Specimen

Material: Aluminium Alloy, 25 mm diameter x 30 mm long. No thermocouples fitted.

Thermal Conductivity: Approximately 180 W/m K

EXPERIMENTAL DATA

	Experiment 1	Experiment 2	Experiment 3
Voltage [V]			
Current [A]			
x [m]	Temp. [°C]		
0.000	T1		
0.015	T2		
0.030	T3		
0.045	T4		
0.060	T5		
0.075	T6		
0.090	T7		
0.105	T8		