

Experiment 10: INVERSE SQUARE LAW FOR HEAT

Objective:

To show that the intensity of radiation on a surface is inversely proportional to the square of the distance of the surface from the radiation source

Procedure:

1. Follow the basic instruction as written in this section.
2. Connect one of the thermocouple of the target plates, BLACK to the panel and place the plate on the bench, to record ambient temperature.
3. Position the radiometer on the test track at 800mm from the heat source.
4. Set heater temperature to 150°C by using heater controller. Monitor TH reading on the indicator.
5. When TH value has stabilized, record BLACK, TH, the distance, x and the radiometer reading, R .
6. Next, move the radiometer position to 700mm from the heated surface and monitor the reading on the display panel. When the value has stabilized, record BLACK, TH, the distance, x and the radiometer reading, R .
7. Repeat the above procedure by reducing the distance by 100mm until the radiometer is 300mm from the heated surface.

Observations:

Distance, x (mm)	Radiometer Reading, R (W/m ²)	BLACK (°C)	TH (°C)
800			
700			
600			
500			
450			
300			

Assignment:

Plot the Log of the corrected radiometer reading R versus $\text{Log}_{10} x$ graph and calculate the slope. Compare the result with the theoretical value.

Heat And Mass Transfer Lab Manual

DJ Losen



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