

**MECHANICAL ENGINEERING DEPARTMENT
LAB MANUAL SHEETS
HEAT TRANSFER**

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List of Experiments:

1. Heat Transfer from a Pin-Fin Apparatus
2. Heat Transfer through Composite Wall
3. Critical Heat Flux
4. Emissivity Measurement Apparatus
5. Heat Transfer through the Lagged Pipe
6. Thermal Conductivity of Insulating Powder
7. Thermal Conductivity of Metal Rod
8. Heat Transfer in Natural Convection
9. Parallel Flow / Counter Flow Heat Exchanger
10. Heat Transfer in Forced Convection

Experiment 1

Heat Transfer from a Pin-Fin Apparatus

Aim: To calculate the value of heat transfer coefficient from the fin for natural & forced convection.

Introduction:

Extended surfaces of fins are used to increase the heat transfer rate from a surface to a fluid wherever it is not possible to increase the value of the surface heat transfer coefficient or the temperature difference between the surface and the fluid. The use of this is variety of shapes (refer fig. 1). Circumferential fins around the cylinder of a

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