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**EXP 4 AND 5**

**EXP 4:**

1.Write the appropriate governing equation for this experiment, solve the same and get the temperature distribution (2.5 m)

2. Instead of sphere if we use cylinder system –which one is better? (1 m)

3.If powder becomes finer what happens to thermal conductivity measured? Is the value measured higher or lower? Why? (1.5 m)

**EXP 5:**

1.Sketch the temperature profiles of the fluids in case one fluid is boiling (1 m)

2. Write formulation of LMTD. What is its need? Why not use Arithmetic Temperature Difference? (2 m)

3. Does hot fluid flow on the inside/outside? Why? Overall heat transfer coefficient is higher in inner or outer-fluid? (2 m)