Chapter 1 Basics of Heat Transfer

Thermodynamics and Heat Transfer

1- How does the science of heat transfer differ from the science of thermodynamics?

Thermodynamics deals with the amount of heat transfer as a system undergoes a process from one equilibrium state to another. Heat transfer, on the other hand, deals with the rate of heat transfer as well as the temperature distribution within the system at a specified time.

2- What is the driving force for (a) heat transfer, (b) electric current flow, and (c) fluid flow?

(a) The driving force for heat transfer is the temperature difference.

(b) The driving force for electric current flow is the electric potential difference (voltage).

(c) The driving force for fluid flow is the pressure difference.

3- What is the caloric theory? When and why was it abandoned?

The caloric theory is based on the assumption that heat is a fluid-like substance called the "caloric" which is a mass less, colorless, odorless substance. It was abandoned in the middle of the nineteenth century after it was shown that there is no such thing as the caloric.

4- How do rating problems in heat transfer differ from the sizing problems?

The rating problems deal with the determination of the heat transfer rate for an existing system at a specified temperature difference. The sizing problems deal with the determination of the size of a system in order to transfer heat at a specified rate for a specified temperature difference.

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KJ Lindholm-Leary



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