

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*.

Using Heat Concept Review

Lingjun Ying

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