
You and Me and Heat Transfer (Makes Three)

So what is heat transfer?

- Defined in Thermodynamics as

- In Heat Transfer as a separate discipline:
 - We are *usually* interested in the _____ of heat transfer.

 - We are interested in the _____ of energy transfer.
 - We deal with _____ processes.
 - We will be interested in the _____ of temperature.

Why should I care?

- Heat transfer processes are encountered in large numbers of engineering systems and other aspects of life. For example:
 - _____
 - _____
 - _____
 - _____

What can I expect to get out of this course?

- A working knowledge of heat transfer such that:
 - you can describe physical systems in terms of heat transfer models
 - you can determine heat transfer rate(s) or temperature distributions for existing systems
 - you can determine the size of a system to achieve a specified heat transfer rate or temperature distribution

Details, I want details!

Who is the hottest person in the room?

■ There are three modes of heat transfer. Specifically,

■ _____

■ _____ (_____ + *advection*)

■ _____

_____ and _____ require mediums.

_____ does not.