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The transfer of heat

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energy by conduction takes place within the boundaries of a system, or across the boundary of the system into another system placed in direct physical contact with the first, without any appreciable displacement of matter comprising the system, or by the exchange of kinetic energy of motion of the molecules by direct communication, or by

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drift of electrons in the case of heat conduction in metals.

**Modes of Heat Transfer Study Notes for Chemical Engineering**

The heat transfer by convection requires a solid-fluid interface, a temperature difference between the solid surface and the surrounding fluid and a motion of the fluid. The process of heat

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transfer by convection would occur when there is a movement of macro-particles of the fluid in space from a region of higher temperature to lower temperature.

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(heat exchanger effectiveness) Applied heat transfer (Heat exchangers, fouling, overall heat transfer coefficient, U) Lect 19 Tues Lect 19 Wed (Ex4) Lect 19b Thurs (Ex4) (21 Nov, a bit behind) 20: Lecture 20 21 Nov 3&2 Dec 2019 Handnotes (heat exchanger effectiveness) Applied heat transfer

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condensers, heat  
transfer with phase  
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Figure 1.1: Conduction heat transfer. The second heat transfer process is convection, or heat transfer due to a flowing fluid. The fluid can be a gas or a liquid; both have applications in aerospace technology.

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In convection heat transfer, the heat is moved through bulk transfer of a non-uniform temperature fluid.

**PART 3**  
**INTRODUCTION TO**  
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**TRANSFER**

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## **GATE CHEMICAL ENGINEERING: LECTURE NOTES**

In fact, the distinguishing mark of the Chemical Engineer

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is their ability to design and operate equipment involving Mass Transfer operations. Many types of process equipment involve mass transfer - Chemical Reactors, Distillation Columns, Gas Absorbers, Dryers, Cooling Towers, and so on.

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Modes of Heat

Transfer:- Convection

Whenever convection takes place there is always a solid object or a solid surface in contact with the fluid or immersed in the fluid. The solid object usually transfers heat and causes the fluid to move. When there is no bulk motion in fluid the heat transfer occurs by mode of conduction.

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Coupled Fluids with  
Heat and Mass Transfer

. 5.1 Coupled Fluids,  
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In chemical engineering, we have to know how to predict rates of heat transfer in a variety of process situations. For example, in mass transfer operations such as distillation, the overhead vapor has to



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be condensed to liquid product in a condenser, and the bottoms are boiled off into vapor in a reboiler.

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