

PHYSICAL KINETIC MOLECULAR THEORY

Learning Objectives

- to identify theoretical differences in how heat conduction occurs in different types of materials and to understand the importance of the kinetic molecular theory in explaining heat conduction in different materials
- to explain heat conduction using kinetic molecular theory concepts

Module 1: Representation of states in different phases

The following figure illustrates the representation of particles in different states of matter:

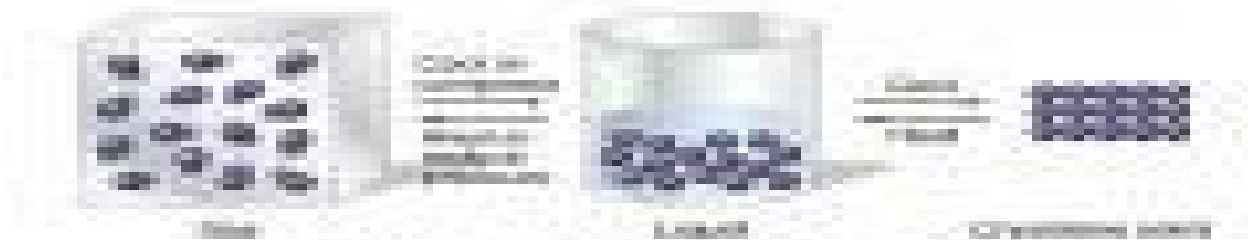


Figure 1: Representation of particles in different states of matter

Heat conduction occurs in different materials and different states of matter. The following figure illustrates the representation of particles in different states of matter:

Heat Conduction

- Heat is the energy transferred between two objects that are in contact with each other. It is the energy that is transferred from one object to another. The amount of heat transferred is called the heat transfer. The amount of heat transferred is called the heat transfer.

Figure 2: Representation of heat transfer in different states of matter

	SOLID STATE	LIQUID STATE	GASEOUS STATE
Heat transfer in solid state is called conduction.	Heat transfer in solid state is called conduction. The particles are in a regular arrangement and the heat is transferred by the vibration of the particles.	Heat transfer in liquid state is called conduction. The particles are in a disordered arrangement and the heat is transferred by the vibration of the particles.	Heat transfer in gaseous state is called conduction. The particles are in a disordered arrangement and the heat is transferred by the vibration of the particles.
Heat transfer in liquid state is called convection.	Heat transfer in liquid state is called convection. The particles are in a disordered arrangement and the heat is transferred by the movement of the particles.	Heat transfer in liquid state is called convection. The particles are in a disordered arrangement and the heat is transferred by the movement of the particles.	Heat transfer in gaseous state is called convection. The particles are in a disordered arrangement and the heat is transferred by the movement of the particles.
Heat transfer in gaseous state is called radiation.	Heat transfer in gaseous state is called radiation. The particles are in a disordered arrangement and the heat is transferred by the emission of electromagnetic waves.	Heat transfer in gaseous state is called radiation. The particles are in a disordered arrangement and the heat is transferred by the emission of electromagnetic waves.	Heat transfer in gaseous state is called radiation. The particles are in a disordered arrangement and the heat is transferred by the emission of electromagnetic waves.

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M Lipman



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