

UNIT 9

Transfer of Heat

1 What is meant by the rate of flow of heat? Describe the factors on which the rate of flow of heat depends.

Ans. **Rate of Flow of Heat**

The amount of heat that flows in unit time is called the rate of flow of heat.

Explanation

Consider a solid block as shown in figure. One of its two opposite faces each of cross-sectional area A is heated to a temperature T_1 . Heat Q flows along its length L to opposite face at temperature T_2 in t seconds.

$$\text{Thus Rate of flow of heat} = \frac{Q}{t} \dots\dots (i)$$

Factors

It is observed that the rate at which heat flows through a solid object depends upon various factors.

(i) **Cross-Sectional area of the Solid**

Larger cross-sectional area A of a solid contains larger number of molecules and free electrons on each layer parallel to its cross-sectional area and hence greater will be the rate of flow of heat through the solid. Thus

$$\text{Rate of flow of heat } \frac{Q}{t} \propto A$$

(ii) **Length of the Solid**

Larger is the length between the hot and cold ends of the solid, more time it will take to conduct heat to the colder end and smaller will be the rate of flow of heat. Thus

$$\text{Rate of flow of heat } \frac{Q}{t} \propto \frac{1}{L}$$

(iii) **Temperature Difference Between Ends**

Greater is the temperature difference $T_1 - T_2$ between hot and cold faces of the solid, greater will be the rate of flow of heat. Thus

$$\text{Rate of flow of heat } \frac{Q}{t} \propto (T_1 - T_2)$$

Combining the above factors, we get

$$\frac{Q}{t} \propto \frac{A(T_1 - T_2)}{L}$$

$$\text{Rate of flow of heat } \frac{Q}{t} = \frac{K A (T_1 - T_2)}{L} \dots (ii)$$

Here k is the proportionality constant called thermal conductivity of the solid. Its value depends on the nature of the substance and is different for different materials. From equation (ii), we find k as:

$$K = \frac{Q}{t} \times \frac{L}{A(T_1 - T_2)}$$

2 What are conductors and non-conductors? Give some of their uses.

Ans. **Conductors**

Those material which allow to pass the heat through them are called conductors e.g. all metals.

Non-Conductors

Those material which do not allow to pass the heat through them are called non-conductors. E.g., wood and plastics etc.

Uses of Conductors

Good conductors are used when quick transfer of heat is required through a body. Thus cookers, cooking plate, boiler, radiators and condensers of refrigerators, etc., are made of metals such as aluminum or copper. Similarly, metal boxes are used for making ice, ice cream, etc.

Uses of non-Conductors

(i) Insulators or bad conductors are used in home utensils such as handles of sauce-pans, hot

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