



INTERMEDIATE

Mode of Heat Transfer

Hand Notes For JEE Mains, Advance, NEET UG, Class 11 & 12 etc...

Hand Notes

Page Length : 17

Note : We also providing IIT JEE, Advance, NEET, JEE UG, GATE, IES, PSUs & Competitive Exam Materials [Handnotes, Shortnotes & Books], All Reports [Seminar Reports & PPT]

Goto : www.martcost.com

MODE OF HEAT TRANSFER

- |1| → CONDUCTION
- |2| → CONVECTION
- |3| → RADIATION

1. → CONDUCTION → Method of heat transfer in which medium particle transferred heat one place to another place without change its own position.



NOTE → * conduction method is possible in solid, liquid & gas.
 iit → * Thermal conductivity^(K) is max for solid medium.

$$K_{\text{solid}} > K_{\text{liq}} > K_{\text{gas}}$$

iiit → * Thermal conductivity is directly proportional to Electrical conductivity. Except → Human body.

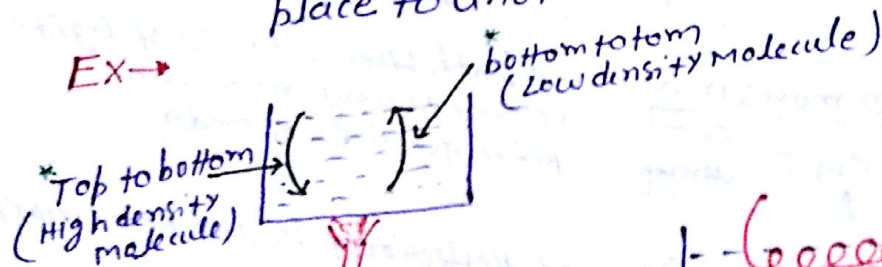
 * Body Electricity conductor hai or Heat conductor hai Except Human Body.

Ex → $\begin{matrix} K_{\text{Cu}} < K_{\text{Al}} \\ K_{\text{Cu}} > K_{\text{A}} \end{matrix}$ $K_{\text{metal}} > K_{\text{non-metal}}$

*
 iivt → * In a solid medium heat transfer take place only from conduction method.

BCECE 2019

2. → CONVECTION → Method of Heat transferred in which medium particle transferred heat one place to another place due to density difference.



* convection method is possible from bottom to top.

