



The heat transfer from a hotter place to a colder place with or without having a material medium in between is called:

The heat transfer from a hotter place to a colder place with or without having a material medium in between is called:

- A. Conduction
- B. Convection
- C. Radiation
- D. Advection

Show Answer...

Correct Answer: C (Radiation)

Explanation:

Heat transfer is the movement of thermal energy from a hotter object or place to a cooler object or place. There are three modes of heat transfer: conduction, convection, and radiation.

Conduction is the transfer of heat through a material medium by contact. In conduction, the heat flows from a region of higher temperature to a region of lower temperature. For example, when you touch a hot stove, heat is transferred from the stove to your hand through conduction.

Convection is the transfer of heat by the movement of fluids, such as liquids and gases. In convection, the heated fluid rises and the cooler fluid sinks, creating a circular motion that transfers heat. For example, when you boil water, the heat is transferred from the stove to the water through convection.

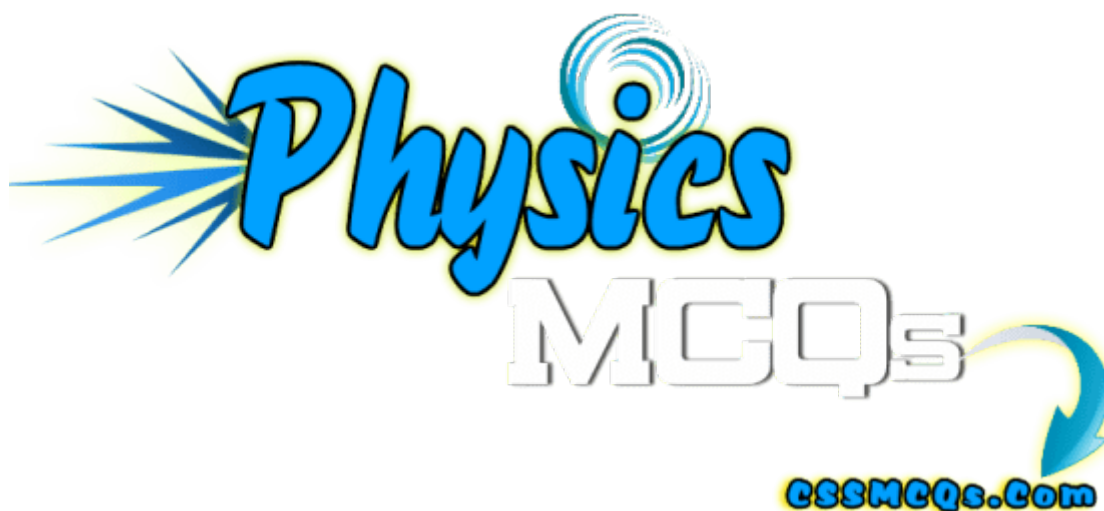
Radiation is the transfer of heat through electromagnetic waves without the need for a material medium. In radiation, the energy is transferred from the hotter object to the cooler object through the emission of electromagnetic waves, such as infrared radiation. For example, the heat from the sun is transferred to the Earth through radiation.



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In conclusion, the heat transfer from a hotter place to a colder place with or without having a material medium in between is called radiation. Radiation is the transfer of heat through electromagnetic waves without the need for a material medium, and it is one of the three modes of heat transfer along with conduction and convection.

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