

HEAT TRANSFER CONDUCTION, CONVECTION, AND RADIATION EXAM QUESTIONS WITH COMPLETE SOLUTIONS

convection - ANSWER-the transfer of thermal energy by the circulation or movement of a liquid or gas.

Describe how convection currents form. Think about a lava lamp - ANSWER-Warmer, less dense fluids (gas or liquid) rise and more dense fluids (gas or liquid) sink. As the less dense (or warmer) fluids rise they COOL. Convection currents transfer thermal energy from warmer to cooler parts of the fluid. In a convection current both conduction and convection transfer thermal energy.

Radiation - ANSWER-The transfer of energy by electromagnetic waves. This type of energy transfer does not require the presence of molecules

Can radiation travel through solids, liquids and gases?

How does radiation travel through solids, liquids, gases? - ANSWER-Yes

Radiation waves strike a material. Some of the energy can be

1. absorbed
2. reflected
3. or transmitted

Why are gases the best at transmitting radiation? - ANSWER-Because gas particles are further apart, the radiation energy travels through the space between the particles. Radiation travels MORE RAPIDLY and EFFICIENTLY through GASES.

Thermal Insulators - ANSWER-Materials that are poor conductors of heat. Material through which thermal energy moves SLOWLY

4 Examples of GOOD thermal insulators - ANSWER-1. Wood

2. Styrofoam
3. Fiberglass
4. Air

Examples of POOR thermal insulators - ANSWER-Remember...“good conductors are poor insulators AND poor conductors are good insulators”
METALS are POOR INSULATORS

Heat Transfer Exam Questions And Solutions

Mike Jess



Heat Transfer Exam Questions And Solutions:

The Enigmatic Realm of **Heat Transfer Exam Questions And Solutions**: Unleashing the Language is Inner Magic

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