

Conduction and Convection

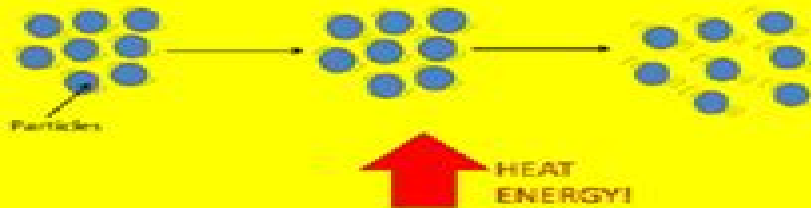
Convection Currents

Definition

Convection is the transfer of heat in liquids and gases.

The hotter the liquid/gas the particles move faster and spread out. This means the gas/liquid becomes less dense.

The less dense gas/liquid rises and the more dense gas/liquid sinks.



Because the particles have to rise and fall for convection to occur it can only happen in liquids and gases, where the particles are free to move.



Model Question (3)

Explain how heat is transferred by the process of convection from the gas flame at the bottom of the oven to the potatoes at the top of the oven.

Model Answer

The air particles are heated by the gas flame and gain energy. This causes the particles to move faster and spread out. Because the particles are spread out the hot air becomes less dense and rises.



Real world Examples

A lava lamp - The light bulb heats the wax causing it heat up and rise. The wax cools at the top and sinks again.

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Conduction and Convection

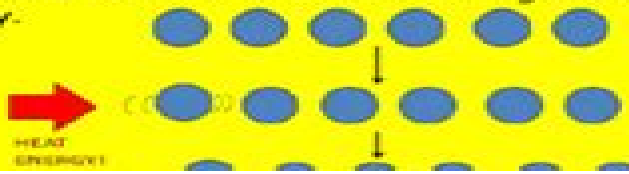
Conduction

Definition

Conduction is how heat energy is transferred through solids when they are heated. Heat energy can also be passed from one solid to another by conduction.

Conductors are materials which transfer energy more easily. Insulators are materials which don't transfer heat as well for example, Glass and plastics.

As the conductor is heated the atoms gain more energy and vibrate more. This causes them to collide with other atoms transferring the heat energy.



Model Question

Explain in terms of particles how heat is transferred through the base of the pan?



Model Answer

Atoms in the base of the saucepan gain thermal energy from the hob. This causes the atoms in the saucepan to vibrate. Due to the vibration the atoms will collide with other atoms and pass on their thermal energy.

Why are metals good conductors?

In a metal lattice electrons from the outer shell are freed from their atoms. This causes those atoms to become positively charged ions. As the metal lattice is heated, these ions vibrate more, passing on their energy to the electrons, which then move through the lattice, carrying the energy to the other side.

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H Kauffman



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Proceedings of the Section of Sciences, 1937 **Proceedings of the Section of Sciences** Koninklijke Nederlandse Akademie van Wetenschappen. Afdeling Natuurkunde, 1937 *The Bacteriophages* Richard Calendar, 2012-12-06 It has been 10 years since Plenum included a series of reviews on bacteriophages in *Comprehensive Virology* Chapters in that series contained physical genetic maps but very little DNA sequence information Now the complete DNA sequence is known for some phages and the sequences for others will soon follow During the past 10 years two phages have come into common use as reagents A phage for cloning single copies of genes and M13 for cloning and DNA sequencing by the dideoxy termination method Also during that period the use of alternative sigma factors by RNA polymerase has become established for SP01 and T4 This seems to be a widely used mechanism in bacteria since it has been implicated in sporulation heat shock response and regulation of nitrogen metabolism The control of transcription by the binding of A phage CII protein to the 35 region of the promoter is a recent finding and it is not known how widespread this mechanism may be This rapid progress made me eager to solicit a new series of reviews These contributions are of two types Each of the first type deals with an issue that is exemplified by many kinds of phages chapters of this type should be useful in teaching advanced courses Chapters of the second type provide comprehensive pictures of individual phage families and should provide valuable information for use in planning experiments *Foundations in Microeconomic Theory* Matthew O. Jackson, Andrew McLennan, 2008-11-30 This volume collects papers from Hugo Sonnenschein's students It aims to demonstrate his tremendous impact as an advisor The papers span decades and present some of the most important articles in microeconomic theory Each paper is accompanied with a preface by the student providing background on the paper and indicating Hugo's influence on its genesis The papers all lie in microeconomic theory and moreover all make fundamental contributions to the foundations of the theory **X-Ray Multiple-Wave Diffraction** Shih-Lin Chang, 2013-04-17 X ray multiple wave diffraction sometimes called multiple diffraction or N beam diffraction results from the scattering of X rays from periodic two or higher dimensional structures like 2 d and 3 d crystals and even quasi crystals The interaction of the X rays with the periodic arrangement of atoms usually provides structural information about the scatterer Unlike the usual Bragg reflection the so called two wave diffraction the multiply diffracted intensities are sensitive to the phases of the structure factors involved This gives X ray multiple wave diffraction the chance to solve the X ray phase problem On the other hand the condition for generating an X ray multiple wave diffraction is much more strict than in two wave cases This makes X ray multiple wave diffraction a useful technique for precise measurements of crystal lattice constants and the wavelength of radiation sources Recent progress in the application of this particular diffraction technique to surfaces thin films and less ordered systems has demonstrated the diversity and practicability of the technique for structural research in condensed matter physics materials sciences crystallography and X ray optics The first book on this subject *Multiple Diffraction of X Rays in Crystals* was published in 1984 and intended to give

a contemporary review on the fundamental and application aspects of this diffraction *Mémoires de la Société royale des sciences de Liège* Société royale des sciences de Liège,1907 **Modern Multivariate Statistical Analysis** Minoru Siotani,Takesi Hayakawa,Yasunori Fujikoshi,1985 **Proceedings** ,1974

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