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Thermal energy is that the energy released by heat is manifested through heat, it passes from a higher-maximum body to lower-volume bodies can be converted into mechanical energy as an electrical energy. Types of energy and process When two bodies come into contact, one high temperature and one low temperature, it is noticeable that the hot body is cooled and the cold body is heated. This is due to the fact that heat is valued in relation to the movement of particles that are in the body. The particles that the hot body will stop gradually while the cold body is going quite the other way around. Getting this energy This energy can be obtained under a variety of conditions such as nature, the sun or from an exothermic reaction, as well as the combustion of certain fuels. Another way to get thermal energy is through a nuclear reaction is either dividing or merging. In addition, it is also possible to get this energy through the energy of nature, which is in thermal form, as geothermal energy is an energy that is able to take advantage of the Earth's internal heat as well as photovoltaic solar energy, it is derived directly from the sun. This type of energy has a direct connection with work, the energy provided by the sun is one of the most valuable, but it is not the most cost-effective due to the high production costs of solar panels. Thanks to this energy, our planet can sustain life, allowing it to continue to develop. It is important to remember that thermal energy generation has a big impact on the environment, as combustion releases carbon dioxide and pollutes emissions highly. SHARE ENFacebookTwitterPin ItWhatsApp DefinitionIt is known as thermal energy, to which energy is released in the form of heat, i.e. manifests itself through heat running from one warm place to another having a lower body temperature. It can be converted into electrical energy and mechanical energy. Thermal energy is the internal energy of the thermodynamic balance system, which is proportional to the absolute temperature and increases or decreases the transmission of energy, usually in the form of work or heat in thermodynamic processes. How to get thermal energy? This energy can be derived from various situations or circumstances, such as nature, sun, exothermic reaction, as in the case of fuel combustion. Thermal energy can be obtained from nuclear reactions, either by fission (when nuclear reaction occurs in atomic nuclei) or by merging (several atomic nuclei, Similar combine to lead to a much heavier core; accompanied by the release of a large amount of energy). Joule: A phenomenon in which, when a conductive current occurs, some of the kinetic energy of electrons is converted into heat by blows to atoms conducting the material through which they circulate. On the other hand, it is also possible to use the energy of nature, which is in the form of thermal energy, as in the case of geothermal energy (energy is derived from the use of the internal heat of planet Earth) and photovoltaic solar energy (renewable electricity derived directly from sunlight). Thermal energy transmission There are three mechanisms of thermal energy transmission: conductivity, convection and radiation. It is the thermal transfer of part of one body to another body organ or from one body to another that is in physical contact with it without a noticeable shift of particles. This is the transfer of heat from one point to another in liquid, gas or liquid, mixing one part of the liquid with another. In natural convection, fluid movement is entirely due to differences in density as a result of temperature changes; In forced convection, the movement is mechanically. When the coercive speed is relatively low, it should be understood that free convection factors, such as temperature and density difference, have an important impact. It is the transfer of thermal energy from one body to another, which is not in contact with it, through the movement of waves through space. In all heat transfer mechanisms, the cooling rate of the body is roughly proportional to the temperature difference between the body and the environment. This fact is known as Newton's Law of Cooling. In many real-world situations, three heat transfer mechanisms occur simultaneously, although some may be more dominant than others. The impact of thermal energy should be taken into account that thermal energy generation will always have an environmental impact, as combustion releases carbon dioxide and highly polluting emissions. This modification, which is generated in temperature, reaching certainly a high level, is absolutely harmful to people's lives. People can be affected by this type of pollution through the two elements that we need, elementary to live, as well as water and air. Today, this type of pollution has become a global problem and is the main cause of warming that our planet suffers, and that makes us observe the phenomena more unheard of, which in most cases occurs suddenly and leaves huge leaps in terms of material damage and human sacrifice. Message Recommended : Magnetic Energy Sound Energy Light Energy Electromagnetic Energy Radiant Energy Thermal Energy Heat Energy also known as thermal calories can manifest heat. If you are interested in studying in detail what continuous reading is to see the information, let's do it. Thermal energy is generated by the movement of small particles of atoms, molecules or ions, liquids, and gases. The same energy is capable of transmitting, it can be from one object to or from one body to another. Although this transmission occurs there is a temperature difference between objects, it is called heat. Many people define heat to something that feels hot, but the heat is nothing more than transferring heat from one object to another colder or with less temperature. This energy can be achieved everywhere, whether in glacial or ice, as well as in volcanoes. Regardless of matter, it contains thermal energy. An example of thermal energy is to put ice in a glass of juice, ice contains thermal energy, this energy is transferred from ice to glass with juice to cool it. We see that the ice will melt and eventually we will have an equal temperature. This is called heat balance. The formula of thermal energy Formula thermal energy, which is used to calculate the thermal cost, which is transmitted as follows: $s \cdot C_e (T_f - T_i)$ - thermal energy C_e - specific heat C_e - heat - temperature Characteristics thermal energy In addition to the characteristics that have all kinds of thermal energy, we can mention these basic: It can be transferred from one body to another. Whenever the heat increases, the body temperature can increase. It can be obtained from a variety of sources. It becomes a different kind of energy. Thermal energy advantages and disadvantages The research various advantages and disadvantages for the use of this energy, here highlight its main advantages and disadvantages: the economic central benefits of construction to generate this energy. It can be used in a thermal engine. Autonomously at high costs of gas and electricity. Disadvantages you need to use other types of energy to generate thermal energy. They have a negative impact on ecosystems. It pollutes the environment because CO2 is produced to produce it. You may be interested: Geothermal energy advantages and disadvantages Mexe engineering forms of thermal energy transmission Thermal energy can be transmitted in different ways: Convection When we talk about thermal gas and liquids, we call it convection. The warmer the air, the smaller particles increase their caloric energy, the faster they move, transporting high-calorie energy. As well known, the hot air is much denser compared to cold air, so it rises much faster. Now, while the hot air is upstairs, the cold air descends to displace the hot air that has risen. This is repeated over and over again, and this cycle is called convection current. Driving the transfer of thermal energy through solids is called held. All small particles of the material, which is quite solid but at the same time soft, can increase the thermal energy of the cold material, just in time for putting them into direct contact. It should be noted that solid material transmits high-calorie energy much better than gases and liquids. Radiation Transmission by infrared waves is called radiation. Compared to others, it does not need any material or gas particles or liquids for thermal transport. These infrared waves transmit heat to objects, no matter where they take, will transmit heat at high speed until they reach another material or object. All this thermal energy transmitted by small waves can be reflected by an object or absorbed. A naive example of radiation can be the heat that you can feel coming out of the fire. It is able to heat the air with heat waves, they are transmitted from the fire in all possible directions, only as long as the object absorbs them. Heat effect - Expansion expansion occurs when fluids, gases and solids are heated. But when they lower the temperature, they decrease or decrease. The expansion is associated with the rapid movement of particles, they are heated because of this movement, so they separate from each other, taking up much more space. When the gas or liquid is placed in the container completely by closing and heating, all the particles in the gas or liquid begin to collide with each other, causing increased pressure in the vessel. The more particles hit, the higher the pressure. A clear example is the house while it burns, when the heat increases, the pressure rises inside the house, it is due to the rapid movement of particles, it clashes with all the walls until it reaches the window and break them, so that the release of pressure will occur. 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